Contact SAMSUNG WORLD-WIDE
If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Country	Customer Care Centre ☎	Web Site
EIRE	0818 717 100	www.samsung.com/ie
U.K	0845 SAMSUNG (7267864)	www.samsung.com

BN68-01757D-00

SERIES 7

Plasma TV

user manual

imagine the possibilities

Thank you for purchasing this Samsung product.
To receive more complete service, please register your product at

www.samsung.com/global/register

Model _____ Serial No. _____

User Instructions

- **Screen Image retention**

  Do not display a still image (such as on a video game or when hooking up a PC to this PDP) on the plasma monitor panel for more than 2 hours as it can cause screen image retention. This image retention is also known as “screen burn”. To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.

- **Height**

  The PDP can normally operate only under 2000m in height. It might abnormally function at a place over 2000m in height so do not install and operate there.

- **Heat on the top of the PDP TV**

  The top side of the product may be hot after long period of use as heat dissipates from the panel through the vent hole in the upper part of the product. This is normal and does not indicate any defect or operation failure of the product. However, children should be prevented from touching the upper part of the product.

- **The product is making a ‘cracking’ noise.**

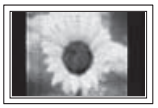
  A ‘cracking’ noise may occur when the product contracts or expands due to a change of surrounding environment such as temperature or humidity. This is normal and not a defect of the unit.

- **Cell Defects**

  The PDP uses a panel consisting of 1,230,000(SD-level) to 3,150,000(HD-level) pixels which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

- **Avoid operating the TV at temperatures below 5°C(41°F)**

- **A still image displayed too long may cause permanent damage to the PDP Panel.**

  Watching the PDP TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and centre of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause similar effect to the screen. Damages caused by the above effect are not covered by the Warranty.

- **Afterimage on the Screen.**

  Displaying still images from Video games and PC for longer than a certain period of time may produce partial afterimages. To prevent this effect, reduce the ‘brightness’ and ‘contrast’ when displaying still images.

- **Warranty**

  - Warranty does not cover any damage caused by image retention.
  - Burn-in is not covered by the warranty.

- **Installation**

  Be sure to contact an authorized service centre, when installing your set in a location with heavy dust, high or low temperatures, high humidity, chemical substance and where it operates continually such as the airport, the train station etc. Failure to do so may cause a serious damage to your set.

Digital TV (DVB-T) Notice

1. **FUNCTIONALITIES RELATED TO DIGITAL TV (DVB) ARE ONLY AVAILABLE IN COUNTRIES OR AREAS WHERE DVB-T (MPEG2 AND MPEG4 AVC) DIGITAL TERRESTRIAL SIGNALS ARE BROADCAST.** DVB-T is the European consortium standard for the broadcast transmission of digital terrestrial television. Please check with your local dealer about the availability of DVB-T service in your area.
2. Although this TV set meets the current DVB-T standards as of [August, 2008], compatibility with future DVB-T digital terrestrial broadcast cannot be guaranteed.
3. Some Digital TV functions may not be available or operate correctly in some countries or regions.
4. For more information, please contact your local SAMSUNG customer care centre.

Contact SAMSUNG WORLDWIDE

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Symbol	Press	Note	One-Touch Button	TOOLS

Connecting and Preparing Your TV

Checking Parts

Owner's Instructions

Remote Control/
AAA Batteries

Power Cord

Cloth-Clean

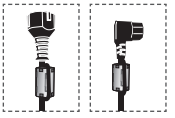
Cover-Bottom / Screws (2ea)
(PS50A756)

Holder-Ring (4ea)
(Refer to page 60)

Program CD

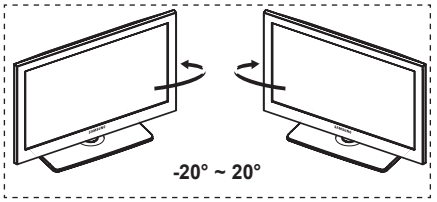
Ferrite Core for
Power Cord (2ea)

Ferrite Core (Power Cord)
The ferrite core is used to shield the cable from interference. When connecting a cable, open the ferrite core and clip it around the cable near the plug.



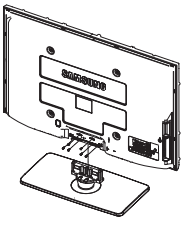
Using the Stand-Base

- Two or more people should carry the PDP. Never lay the PDP on the floor because of possible damage to the screen. Always keep the PDP upright.
- The PDP can rotate 20 degrees in right and left directions.



How to assemble the Stand-Base (depending on the model)

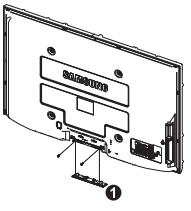
Using the 6 screws for securing the stand base and the monitor, firmly attach the monitor to the stand base.
(The exterior of the set may be different than the picture.)



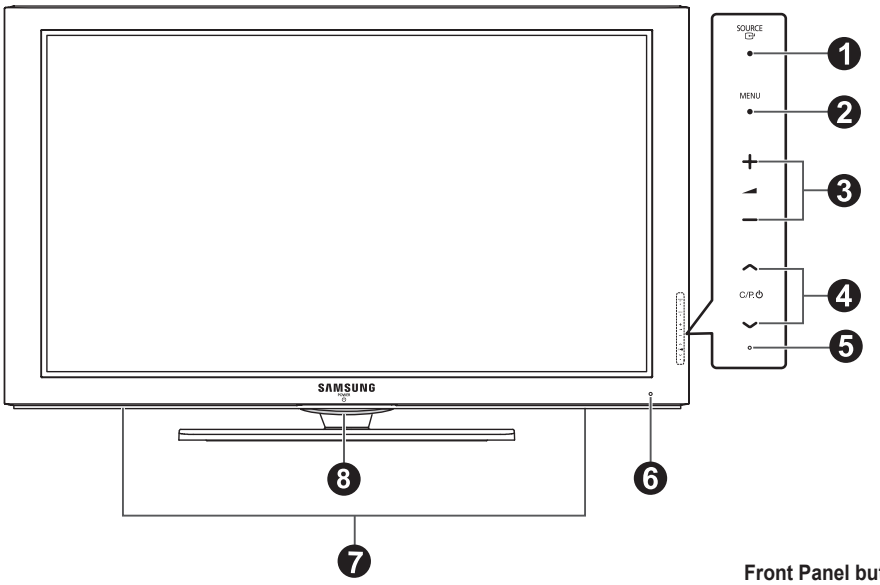
Warning
Firmly secure the stand to the TV before moving it, as the stand may fall and could cause serious injury.

- Two or more people should carry the TV. Never lay the TV on the floor because of possible damage to the screen. Always store the TV upright.

In case of installing your TV on the wall, close the cover (❶) on the stand-base connection part using two screws for hiding.



Viewing the Control Panel



The product colour and shape may vary depending on the model.

Front Panel buttons
Touch each button to operate.

❶ **SOURCE**

Toggles between all the available input sources (**TV**, **Ext1**, **Ext2**, **AV**, **S-Video**, **Component**, **PC**, **HDMI1**, **HDMI2/DVI**, **HDMI3**, **HDMI4**, **USB, DLNA**).

In the on-screen menu, use this button as you would use the **ENTER** button on the remote control.

❷ **MENU**

Press to see an on-screen menu of your TV's features.

❸ **– +**

Press to increase or decrease the volume. In the on-screen menu, use the – + buttons as you would use the ◄ and ► buttons on the remote control.

❹ **C/P.**

Press to change channels. In the on-screen menu, use the C/P. buttons as you would use the ▲ and ▼ buttons on the remote control.

❺ **POWER INDICATOR**

Blinks and turns off when the power is on and lights up in stand-by mode.

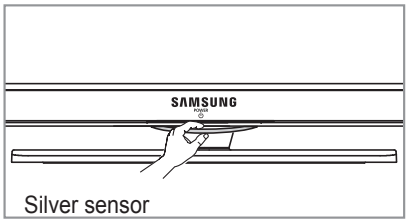
❻ **REMOTE CONTROL SENSOR**

Aim the remote control towards this spot on the TV.

❼ **SPEAKERS**

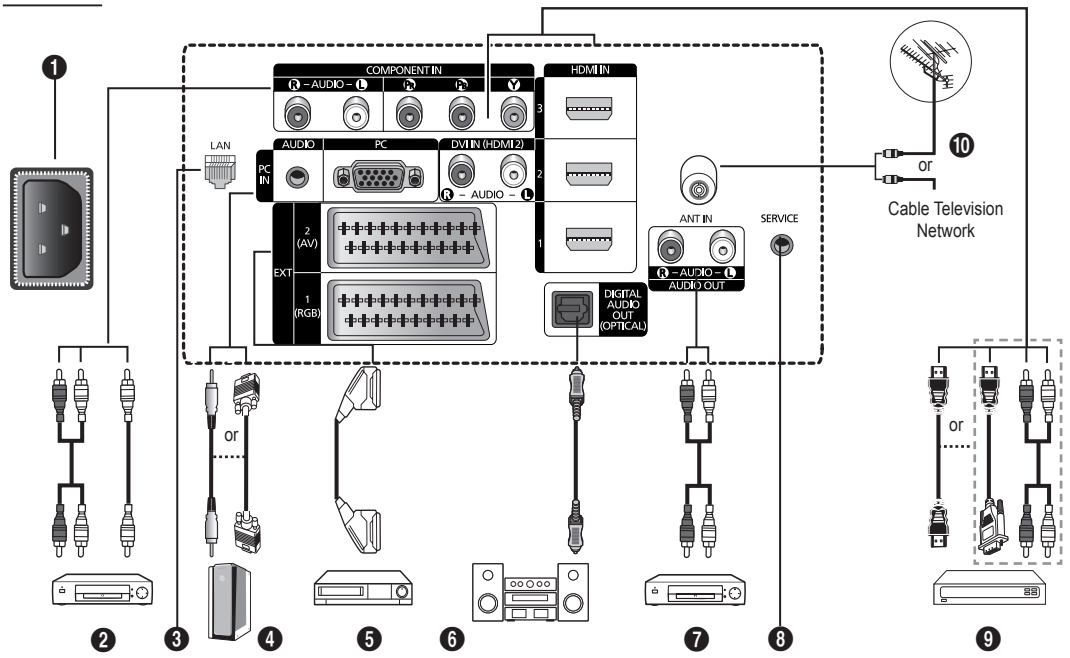
❽ **(POWER)**

Touch the silver sensor below the (⏻) mark to turn the TV on and off.



Viewing the Connection Panel

Rear Panel



The product colour and shape may vary depending on the model.

Whenever you connect an audio or video system to your set, ensure that all elements are switched off.
When connecting an external device, match the colour of the connection terminal to the cable.

❶ **POWER IN**
Connect the supplied power cord.

❷ **COMPONENT IN**
Audio (AUDIO L/R) and video (Y/PB/PR) inputs for Component.

❸ **LAN**
Connect a LAN cable to this port to connect to the Network.

❹ **PC IN(PC) / AUDIO**
Connect to the video and audio output jack on your PC.

❺ **EXT 1, EXT 2**
Inputs or outputs for external devices, such as VCR, DVD, video game device or video disc players.

Input/Output Specification

Connector	Input			Output
	Video	Audio(L/R)	RGB	Video + Audio(L/R)
EXT 1	✔	✔	✔	Only TV or DTV output is available.
EXT 2	✔	✔		Output you can choose.

❻ **DIGITAL AUDIO OUT (OPTICAL)**
Connect to a Digital Audio Component.

❼ **AUDIO OUT(AUDIO R/L)**
Connect RCA audio signals from the TV to an external source, such as Audio equipment.

❽ **SERVICE**
− Connector for service.

❾ **HDMI IN 1, 2, 3**
- No additional Audio connection is needed for an HDMI to HDMI connection.
- When using an HDMI/DVI cable connection, you must use the HDMI IN 2 jack.

What is HDMI?
- **High Definition Multimedia interface** allows the transmission of high definition digital video data and multiple channels of digital audio.
- The HDMI/DVI terminal supports DVI connection to an extended device with the appropriate cable (not supplied). The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed, and supports multi - channel digital audio.

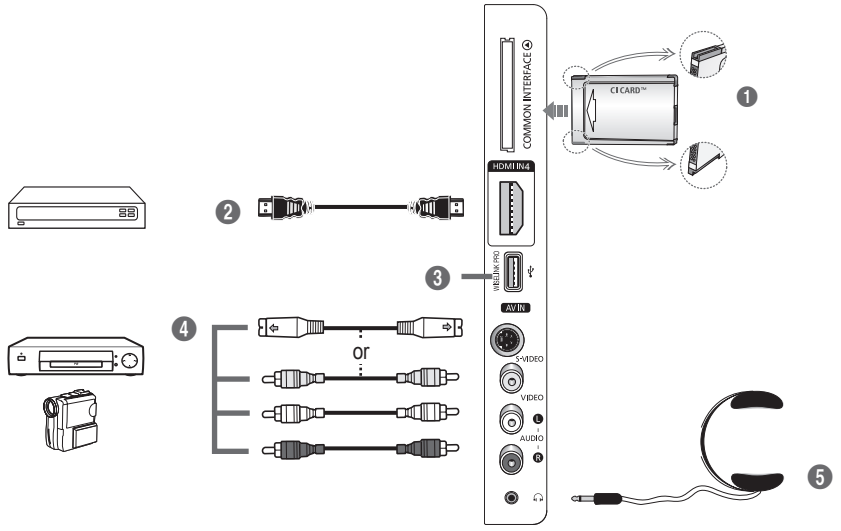
DVI IN(HDMI2) AUDIO L/R
DVI audio outputs for external devices.

❿ **ANT IN**
75Ω Coaxial connector for Aerial/Cable Network.

Supported modes for HDMI/DVI and Component

	480i	480p	576i	576p	720p	1080i	1080p
HDMI/DVI 50Hz	X	X	X	O	O	O	O
HDMI/DVI 60Hz	X	O	X	X	O	O	O
Component	O	O	O	O	O	O	O

Side Panel



The product colour and shape may vary depending on the model.

❶ **COMMON INTERFACE Slot**
Insert CI (Common Interface) card into the slot.
(refer to page 25)
- When not inserting **CI CARD** in some channels, **Scramble Signal** is displayed on the screen.
- The pairing information containing a telephone number, CI CARD ID, Host ID, and other information will be displayed in about 2~3 minutes. If an error message is displayed, please contact your service provider.
- When the channel information configuration has finished, the message **Updating Completed** is displayed, indicating that the channel list is now updated.

Insert the CI-Card in the direction marked on it.

❷ **HDMI IN 4**
Connect to the HDMI jack of a device with HDMI output.

❸ **WISELINK PRO**
Connect a USB mass storage device to view and play photo files (JPEG), audio files (MP3) and movie files.
You can connect to SAMSUNG's network wirelessly.

❹ **S-VIDEO or VIDEO / AUDIO L/R**
Video (S-Video or Video) and audio inputs for external devices, such as a camcorder or VCR.

❺ **HEADPHONES JACK**
You can connect a set of headphones if you wish to watch a television programme without disturbing the other people in the room.

Prolonged use of headphones at a high volume may damage your hearing.

Remote Control

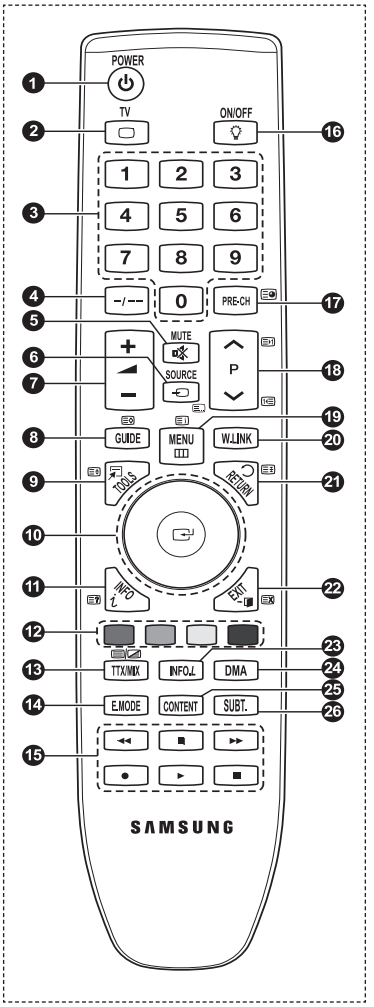
You can use the remote control up to a distance of about 23 feet from the TV.

The performance of the remote control may be affected by bright light.

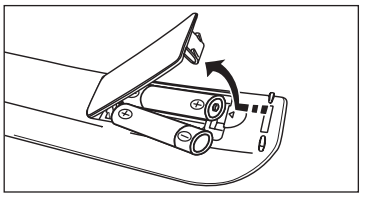
1. POWER button (turns the TV on and off)
2. Selects the TV mode directly.
3. Number buttons for direct channel access
4. One or more digit channel selection
5. Temporary sound switch-off
6. Available source selection
7. [+] Volume increase
   [−] Volume decrease
8. Electronic Program Guide (EPG) display
9. Use to quickly select frequently used functions.
10. Control the cursor in the menu
11. Use to see information on the current broadcast
12. Use these buttons in the Channel list and WISELINK, etc.
14. Press to select the optional display and sound modes for sports, cinema and games.
15. Use these buttons in the Channel list, WISELINK Pro and Anynet+.
16. **ON/OFF**
    Press to backlight the buttons on the remote. This function is convenient for using at night or when the room is dark. (Using the remote control with the ON/OFF() light button set to On will reduce the battery usage time.)
17. Previous channel
18. [^] Next channel
    [v] Previous channel
19. Displays the main on-screen menu
20. This function enables you to view and play photo (JPEG) , audio files (MP3) and movie files from an external device.
21. Returns to the previous menu
22. Exit the on-screen menu
23. Press to use the News, Stock Market and Weather Forecast information services available over the network.
24. Use this when connecting a SAMSUNG DMA (Digital Media Adapter) device through an HDMI interface and switching to DMA mode.
    (The DMA button is optional.) For more information on the operating procedures, refer to the user manual of the DMA. This button is available when **Anynet+(HDMI-CEC)** is **On** (see page 54)
25. This function enables you to view **Content Library**.
26. Digital subtitle display

Teletext Functions

2. Exit from the teletext display (depending on the model)
6. Teletext mode selection (LIST/ FLOF)
8. Teletext store
9. Teletext size
11. Teletext reveal
12. Fastext topic selection
13. Teletext display/mix both teletext information and the normal broadcast
17. Teletext sub page
18. P [^] :Teletext next page
    P [v] :Teletext previous page
19. Teletext index
21. Teletext hold
22. Teletext cancel



Installing Batteries in the Remote Control



1. Lift the cover at the back of the remote control upward as shown in the figure.
2. Install two AAA size batteries.
   - Make sure to match the '+' and '–' ends of the batteries with the diagram inside the compartment.
3. Close the cover.
   - Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.
   - Using the remote control with the **ON / OFF** light button set to on will reduce the battery usage time.

If the remote control doesn't work, check the following:
1. Is the TV power on?
2. Are the plus and minus ends of the batteries reversed?
3. Are the batteries drained?
4. Is there a power outage or is the power cord unplugged?
5. Is there a special fluorescent light or neon sign nearby?

Switching On and Off

The mains lead is attached to the rear of your set.

1. Plug the mains lead into an appropriate socket.
   - The standby indicator lights up on your set.
2. Press the **POWER**⏻ button on your set.
   - You also can press the **POWER**⏻ button or the **TV** button on the remote control to turn the TV on.
   - The programme that you were watching last is reselected automatically.
3. Press the numeric button (0~9) or channel up / down (∧ / ∨) button on the remote control or ∨**C/P.**⏻∧ button on your set.
   - When you switch the set on for the very first time, you will be asked to choose language in which the menus are to be displayed.
4. To switch your set off, press the **POWER**⏻ button again.

Placing Your Television in Standby Mode

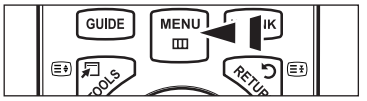
Your set can be placed in standby mode in order to reduce the power consumption. The standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

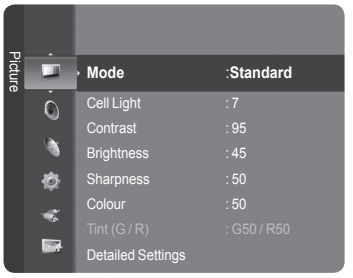
1. Press the **POWER**⏻ button on the remote control.
   - The screen is turned off and a red standby indicator appears on your set.
2. To switch your set back on, simply press the **POWER**⏻, numeric buttons (0~9), **TV** button or channel up / down (∧ / ∨) button again.
   - Do not leave your set in standby mode for long periods of time (when you are away on holiday, for example). It is best to unplug the set from the mains and aerial.

Viewing the Menus

1. With the power on, press the **MENU** button. The main menu appears on the screen. The menu's left side has icons: Picture, Sound, Channel, Setup, Input, Application.
2. Press the ▲ or ▼ button to select one of the icons. Then press the **ENTER** button to access the icon's sub-menu.
3. Press the **EXIT** button to exit.

   The on-screen menus disappear from the screen after about one minute.



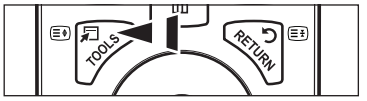


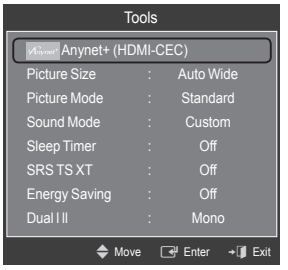
Using the TOOLS Button

You can use the **TOOLS** button to select your frequently used functions quickly and easily. The **Tools** menu changes depending on which external input mode you are viewing.

1. Press the **TOOLS** button. The **Tools** menu will appear.
2. Press the ▲ or ▼ button to select a menu.
3. Press the ▲ / ▼ / ◄ / ► / **ENTER** buttons to display, change, or use the selected items. For a more detailed description of each function, refer to the corresponding page.

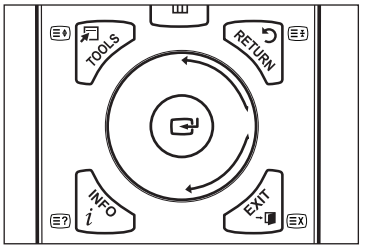
- Anynet+ (HDMI-CEC): see page 53
- Picture Size: see page 17
- Picture Mode: see page 15
- Sound Mode: see page 21
- Sleep Timer: see page 26
- SRS TS XT: see page 21
- Energy Saving: see page 25
- Dual I II: see page 22
- PIP: see page 19
- Auto Adjustment: see page 19





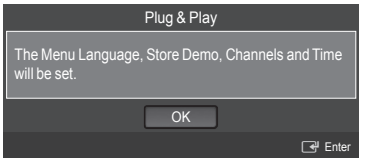
Using the Wheel button

- To increase the channel number, turn the wheel clockwise when the Channel Display is displayed. To decrease the channel number, turn the wheel counterclockwise.
- To turn the volume up, turn the wheel clockwise when the Volume Control window is displayed. To turn the volume down, turn the wheel counterclockwise.
- To move to a lower menu, turn the wheel clockwise when the menu Display is displayed. To move to a higher menu, turn the wheel counterclockwise.



Plug & Play Feature

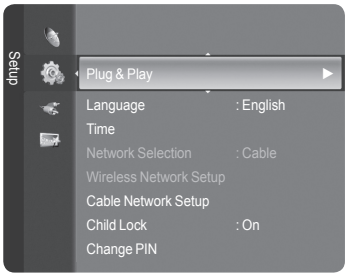
When the TV is initially powered on, basic settings proceed automatically and subsequently.



1. Press the **POWER** button on the remote control. The message **The Menu Language, Store Demo, Channels and Time will be set.** is displayed.
2. Press the **ENTER** button, then **Select the OSD Language.** menu is automatically displayed. Press the **ENTER** button.
3. Select the appropriate language by pressing the ▲ or ▼ button. Press the **ENTER** button to confirm your choice.
4. Press the ◄ or ► button to select **Store Demo** or **Home Use**, then the **ENTER** button.
   - We recommend setting the TV to **Home Use** mode for the best picture in your home environment.
   - **Store Demo** mode is only intended for use in retail environments.
   - If the unit is accidentally set to **Store Demo** mode and you want to return to **Home Use** (Standard): Press the Volume button on the TV. When the volume OSD is displayed, press and hold the **MENU** button on the TV for 5 seconds.
   - The Screen Saver is activated if there is no remote control key input for longer than 1 minute while **Plug & Play** is running.
   - The Screen Saver is activated if there is no operating signal for longer than 15 minutes.
5. Press the **ENTER** button. Select the appropriate country by pressing the ▲ or ▼ button. Press the **ENTER** button to confirm your choice.
6. Press the ▲ or ▼ button to select the channel source to memorize. Press the **ENTER** button to select **Start**.
   - **Digital & Analogue**: Digital and Analogue channels.
     Digital: Digital channels.
     Analogue: Analogue channels.
   - The channel search will start and end automatically.
   - Press the **ENTER** button at any time to interrupt the memorization process.
   - After all the available channels are stored, the message **Set the Clock Mode.** is displayed.
7. Press the **ENTER** button. Press the ▲ or ▼ button to select **Auto**, then Press the **ENTER** button.
   - If you select **Manual**, **Set current date and time** is displayed. (See page 26)
   - If you have received a digital signal, the time will be set automatically. If not, see page 26 to set the clock.
8. The message **Enjoy your viewing** is displayed. When you have finished, press the **ENTER** button.

If you want to reset this feature...

1. Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select **Setup**, then press the **ENTER** button.
2. Press the **ENTER** button again to select **Plug & Play**.
3. Enter your 4 digit PIN number. The default PIN number of a new TV set is '0-0-0-0'.
   - If you want to change PIN number, refer to 23 page.
   - The **Plug & Play** feature is only available in the **TV** mode.



Channel Control

Storing Channels and channel

❑ Country

- **Analogue Channel**: You can change the country for analogue channels.
- **Digital Channel**: You can change the country for digital channels.

The PIN number input screen appears. Enter your 4 digit PIN number.

❑ Auto Store

You can scan for the frequency ranges available to you (and availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers.

- **Digital & Analogue**: Digital and Analogue channels.
- **Digital**: Digital channels.
- **Analogue**: Analogue channels.

Scans for all channels with active broadcast stations and stores them in the TV's memory.
If you want to stop Auto Store, press the **ENTER** button.
The **Stop Auto Store?** message will be displayed.
Select **Yes** by pressing the ◄ or ► button, then press the **ENTER** button.
If a channel is locked using the **Child Lock** function, the PIN input window appears.

❑ Manual Store

Scans for a channel manually and stores it in the TV's memory.
If a channel is locked using the **Child Lock** function, the PIN input window appears.

Digital Channel

Manual store for digital channels.

- **Channel**: Set the Channel number using the ▲, ▼ or number (**0~9**) buttons.
- **Frequency**: Set the frequency using the number buttons.
- **Bandwidth**: Set the bandwidth using the ▲, ▼ or number (**0~9**) buttons.

When it has finished, channels are updated in the channel list.

Analogue Channel

Manual store for analogue channel.

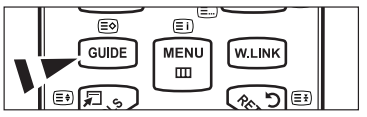
- **Programme** (Programme number to be assigned to a channel): Sets the programme number using the ▲, ▼ or number (0~9) buttons.
- **Colour System** → **Auto / PAL / SECAM / NTSC4.43**: Sets the colour system value using the ▲ or ▼ button.
- **Sound System** → **BG / DK / I / L**: Sets the sound system value using the ▲ or ▼ button.
- **Channel** (When you know the number of the channel to be stored): Press the ▲ or ▼ button to select **C** (Air channel) or **S** (Cable channel). Press the ► button, then press the ▲, ▼ or number (**0~9**) buttons to select the required number.
  - You can also select the channel number directly by pressing the number (**0~9**) buttons.
  - If there is abnormal sound or no sound, reselect the sound standard required.
- **Search** (When you do not know the channel numbers): Press the ▲ or ▼ button to start the search. The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen.
- **Store** (When you store the channel and associated programme number): Set to **OK** by pressing the **ENTER** button.
  - **Channel mode**
    - P (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to P99. You can select a channel by entering the position number in this mode.
    - C (Air channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
    - S (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.

❑ Full Guide / Mini Guide

The EPG (Electronic Programme Guide) information is provided by the broadcasters. Programme entries may appear blank or out of date as a result of the information broadcast on a given channel. The display will dynamically update as soon as new information becomes available.

For the detailed procedures on using **Full Guide** and **Mini Guide**, refer to the descriptions on page 13.

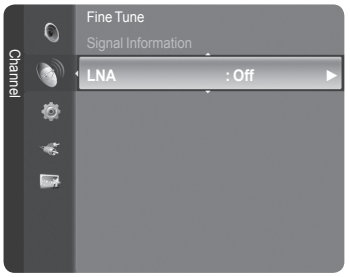
You can also display the guide menu simply by pressing the **GUIDE** button. (To configure the **Default Guide**, refer to the descriptions.)



- **Full Guide**: Displays the programme information as time ordered One hour segments. Two hours of programme information is displayed which may be scrolled forwards or backwards in time.
- **Mini Guide**: The information of each programme is displayed by each line on the current channel Mini Guide screen from the current programme onwards according to the programme starting time order.

❑ Default Guide

- **Mini Guide / Full Guide**: You can decide whether to display either the **Mini Guide** or the **Full Guide** when the **GUIDE** button on the remote control is pressed.



❑ Channel List

For the detailed procedures on using the **Channel List**, refer to the descriptions on pages 14~15.

❑ Channel Mode

When the press the **P** ∨/∧ button, Channels will be switched within the selected channel list.

- **Added Ch.**: Channels will be switched within the memorized channel list.
- **Favourite Ch.**: Channels will be switched within the favourite channel list.

❑ Fine Tune

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, you may have to fine tune the channel manually.

- Fine tuned channels that have been saved are marked with an asterisk * on the right-hand side of the channel number in the channel banner.
- To reset the fine-tuning, select **Reset** by pressing the ▲ or ▼ button and then press the **ENTER** button.
- Only Analogue TV channels can be fine tuned.

❑ Signal Information

You can get information about the signal status.

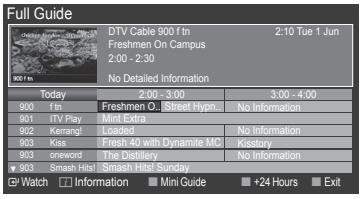
- If the signal status is poor, the **Weak or No Signal** message is displayed.
- While viewing a Digital channel, this function can be selected.
- The technical information for signal status is displayed.
  - **Frequency** / **Service ID** / **Multiplex** / **Network** / **Bit error level** / **Signal Strength**

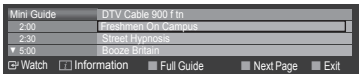
❑ LNA → Off / On

If the TV is operating in a weak-signal area, the **LNA** (Low Noise Amplifier) function can improve the reception (a low-noise preamplifier boosts the incoming signal).

- While viewing an Analogue channel, this function can be selected.

Using the Full / Mini Guide



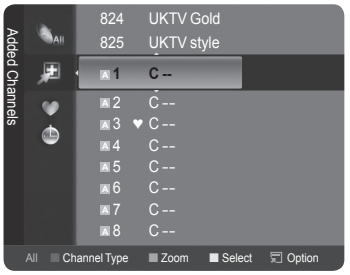


▲/▼/◄/►, (**ENTER**)	Select a programme by pressing the ▲/▼/◄/► button. If the next progrmme is selected, it is scheduled with the clock icon displayed. If the **ENTER** button is pressed again, press the ▲/▼/◄/► button to select **Cancel Schedules**, the scheduling is canceled with the clock icon gone. For details about scheduling programmes, refer to the section.
RED	Toggle between the **Mini Guide** or **Full Guide**.
GREEN	**Full Guide**: Scroll backwards quickly (24 hours). **Mini Guide**: Display next page quickly.
YELLOW	**Full Guide**: Scroll forwards quickly (24 hours). **Mini Guide**: Display previous page quickly.
BLUE	Exit the guide.
INFO	**INFO** button for the detailed information. Channel Number, Running Time, Status Bar, Parental Level, Video Quality Information (HD/SD), Sound Modes, Subtitle or Teletext, languages of Subtitle or Teletext and brief summary of the highlighted programme are included on the detailed information. "…" will be appeared if the summary is long.

Managing Channels

Using this menu, you can Add / Delete or set Favourite channels and use the programme guide for digital broadcasts.

- Select a channel in the **All Channels**, **Added Channels** ,**Favourites** or **Programmed** screen by pressing the ▲ / ▼ buttons, and pressing the **ENTER** button. Then you can watch the selected channel.
- **All Channels**: Shows all currently available channels.
- **Added Channels**: Shows all added channels.
- **Favourites**: Shows all favourite channels.
- **Programmed**: Shows all current reserved programmes.



Using the Colour buttons with the Channel List

- **Red (**Channel Type**):** Toggle between your **TV**, **Radio**, **Data / Other** and **All**.
- **Green (**Zoom**)**: Enlarges or shrinks a channel number.
- **Yellow (**Select**)**: Selects multiple channel lists.
- **TOOLS (**Option**)**: Displays the **Delete** (or **Add**), **Add to Favourite** (or **Delete from Favourite**), **Lock** (or **Unlock**), **Timer Viewing**, **Edit Channel Name**, **Sort**, **Edit Channel Number**, **Select All**, **Deselect All** or **Auto Store** menu. (The Options menus may differ depending on the situation.)

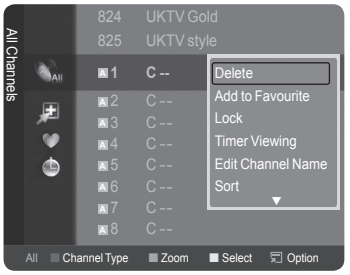
Channel Status Display Icons

A	An Analogue channel.	✓	A channel selected by pressing the yellow button.
♥	A channel set as a Favourite.		A programme currently being broadcast.
	A locked channel.		A reserved programme

Channel List Option Menu (in All Channels / Added Channels / Favourites)

Press the **TOOLS** button to use the option menu.

Option menu items may differ depending on the channel status.



Add / Delete

You can delete or add a channel to display the channels you want.

- All deleted channels will be shown on **All Channels** menu.
- A gray-coloured channel indicates the channel has been deleted.
- The **Add** menu only appears for deleted channels.
- You can also delete a channel to the **Added Channels** or **Favourite** menu in the same manner.

Add to Favourite / Delete to Favourite

You can set channels you watch frequently as favourites.

- The ♥ symbol will be displayed and the channel will be set as a favourite.
- All favourite channels will be shown on **Favourite** menu.

Lock / Unlock

You can lock a channel so that the channel cannot be selected and viewed. This function is available only when the **Child Lock** is set to **on**. (see page 23)

- The PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is **0-0-0-0**. You can change the PIN, by selecting **Change PIN** from the menu.
- The symbol will be displayed and the channel will be locked.

Timer Viewing

If you reserve a programme you want to watch, the channel is automatically switched to the reserved channel in the Channel List; even when you are watching another channel. To reserve a programme , set the current time first. (See page 26.)

- Only memorized channels can be reserved.
- You can set the channel, month, day, year, hour and minute directly by pressing the number buttons on the remote control.
- Reserving a programme will be shown on **Programmed** menu.
- **Digital Programme Guide and Viewing Reservation**
  When a digital channel is selected, and you press the ► button, the Programme Guide for the channel appears. You can reserve a programme according to the procedures described above.

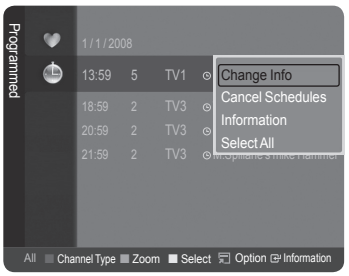
- **Edit Channel Name** (only analogue channel)
  Channels can labeled so that their call letters appear whenever the channel is selected.
  The names of digital broadcasting channels are automatically assigned and cannot be labeled.
- **Edit Channel Number** (only digital channel)
  You can also edit the channel number by pressing the number buttons on the remote control.
- **Sort**
  This operation allows you to change the programme numbers of the stored channels. This operation may be necessary after using the auto store.
  The function is only available in Analouge.
- **Select All / Deselect All**
  - **Select All**: You can select all the channels in the channel list.
  - **Deselect All**: You can deselect all the selected channels in the channel list.

  You can perform the add / delete, add to Favourites / delete from Favourites, or lock / unlock function for multiple channels at the same time. Select the required channels and press the yellow button to set all the selected channels at the same time.
  The ✓ mark appears to the left of the selected channels.
  You can only select **Deselect All** when there is a selected channel.
- **Auto Store**
  For further details on setting up options, refer to page 11.
  If a channel is locked using the **Child Lock** function, the PIN input window appears.

Channel List Option Menu (in Programmed)

You can view, modify or delete a reservation.

Press the **TOOLS** button to use the option menu.



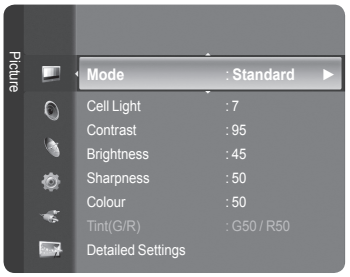
- **Change Info**: Select to change a viewing reservation.
- **Cancel Schedules**: Select to cancel a viewing reservation.
- **Information**: Select to view a viewing reservation. (You can also change the reservation information.)
- **Select All**: Select all reserved programmes.

Picture Control

Changing and Resetting the Picture Settings

❑ Mode

You can select the type of picture which best corresponds to your viewing requirements.



- **Dynamic**: Selects the picture for high-definition in a bright room.
- **Standard**: Selects the picture for the optimum display in a normal environment.
- **Movie**: Selects the picture for viewing movies in a dark room.

  Press the **TOOLS** button to display **Tools** menu.
  You can also set the picture mode by selecting **Tools** → **Picture Mode**.

❑ Cell Light / Contrast / Brightness / Sharpness / Colour / Tint(G/R)

Your television has several setting options that allow you to control the picture quality.

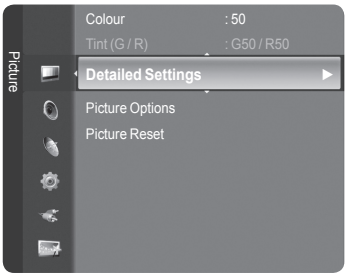
- **Cell Light**: Adjusts the pixel brightness. 10 is brightest.
- **Contrast**: Adjusts the contrast level of the picture.
- **Brightness**: Adjusts the brightness level of the picture.
- **Sharpness**: Adjusts the edge definition of the picture.
- **Colour**: Adjusts Colour saturation of the picture.

■ **Tint(G/R)**: Adjusts the Colour tint of the picture.

- Select a picture mode to be adjusted first. The adjusted values are saved for each picture mode.
- When you make changes to **Cell Light**, **Contrast**, **Brightness**, **Sharpness**, **Colour** or **Tint(G/R)**, the OSD will be adjusted accordingly.
- In Analogue TV, Ext., AV, S-Video modes of the PAL system, you cannot use the Tint Function.
- In PC mode, you can only make changes to **Cell Light**, **Contrast** and **Brightness**.
- Settings can be adjusted and stored for each external device you have connected to an input of the TV.
- The energy consumed during use can be significantly reduced if the level of brightness of the picture is reduced, and then this will reduce the overall running cost.

❑ Detailed Settings

Samsung's new TVs allow you to make even more precise picture settings than previous models. See below to adjust detailed picture settings.



- **Detailed Settings** is available in **Standard** or **Movie** mode.
- In PC mode, you can only make changes to **Dynamic Contrast**, **Gamma** and **White Balance** from among the **Detailed Settings** items.

■ **Black Adjust → Off / Low / Medium / High**

You can select the black level on the screen to adjust the screen depth.

■ **Dynamic Contrast → Off / Low / Medium / High**

You can adjust the screen contrast so that the optimal contrast is provided.

■ **Gamma**

You can adjust the Primary Colour (Red, Green, Blue) Intensity.

■ **Colour Space**

Colour Space is a colour matrix composed of red, green and blue colours. Select your favourite Colour Space to experience the most natural colour.

- **Auto**: Auto Colour Space automatically adjusts to the most natural colour tone based on programme sources.
- **Native**: Native Colour Space offers deep and rich colour tone.
- **Custom**: Adjusts the colour range to suit your preference.

Customizing the Colour Space

- **Colour → Red / Green / Blue / Yellow / Cyan / Magenta**
- Adjusts the Colour range to suit your preference. **Colour** is available when **Colour Space** is set to **Custom**.
- **Red / Green / Blue**: In **Colour**, you can adjust the RGB values for the selected colour.
- **Reset**: Resets the colour space to the default values.

■ **White Balance**

You can adjust the colour temperature for more natural picture colours.

- R-Offset / G-Offset / B-Offset / R-Gain / G-Gain / B-Gain: Changing the adjustment value will refresh the adjusted screen.
- Reset: The previously adjusted white balance will be reset to the factory defaults.

■ **Flesh Tone**

You can emphasize the pink 'flesh tone' in the picture.

- Changing the adjustment value will refresh the adjusted screen.

■ **Edge Enhancement → Off / On**

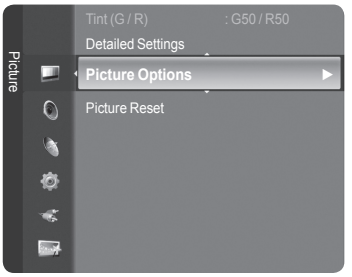
You can emphasize object boundaries in the picture.

■ **xvYCC → Off / On**

Setting the xvYCC mode to on increases detail and colour space when watching movies from an external device (i.e. DVD player).

- **xvYCC** is available when the picture mode is set to **Movie**, and the external input is set to **HDMI** or **Component** mode.
- If **xvYCC** function is active, PIP cannot be selected.

❑ Picture Options



- In PC mode, you can only make changes to the **Colour Tone, Size** and **Screen Burn Protection** from among the items in **Picture Options**.

■ **Colour Tone → Cool2 / Cool1 / Normal / Warm1 / Warm2**

You can select the most comfortable colour tone to your eyes.

- The adjusted values are stored according to the selected **Picture** mode.
- **Warm1** or **Warm2** is only activated when the picture mode is **Movie**.

■ **Size**

You can select the picture size which best corresponds to your viewing requirements.

Press the **TOOLS** button to display **Tools** menu.
You can also set the size by selecting **Tools** → **Picture Size**.

- **Auto Wide**: Automatically adjusts the picture size to the **16:9** aspect ratio.
- **16:9**: Adjusts the picture size to 16:9 appropriate for DVDs or wide broadcasting.
- **Wide Zoom**: Magnify the size of the picture more than 4:3.
- **Zoom**: Magnifies the 16:9 wide picture (in the vertical direction) to fit the screen size.
- **4:3**: This is the default setting for a video movie or normal broadcasting.
- **Just Scan**: Use the function to see the full image without any cutoff when HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals are input.

Depending on the input source, the picture size options may vary.

The items available may differ depending on the selected mode.

In PC Mode, only **16:9** and **4:3** mode can be adjusted.

Settings can be adjusted and stored for each external device you have connected to an input of the TV.

Temporary image retention may occur when viewing a static image on the set for more than two hours.

Wide Zoom: Press the ► button to select **Position**, then press the **ENTER** button. Press the ▲ or ▼ button to move the screen up / down. Then press the **ENTER** button.

Zoom: Press the ► button to select **Position**, then press the **ENTER** button. Press the ▲ or ▼ button to move the picture up and down. Then press the **ENTER** button. Press the ► button to select **Size**, then press the **ENTER** button. Press the ▲ or ▼ button to magnify or reduce the picture size in the vertical direction. Then press the **ENTER** button.

After selecting **Just Scan** in HDMI (1080i / 1080p) or Component (1080i / 1080p) mode: Select **Position** by pressing the ◄ or ►button. Use the ▲, ▼, ◄ or ► button to move the picture.

Reset: Press the ◄ or ► button to select **Reset**, then press the **ENTER** button. You can initialize the setting.

If you use the **Just Scan** function with HDMI 720p input, 1 line will be cut at the top, bottom, left and right as in the overscan function.

When Double (,) mode has been set in PIP, the Picture Size cannot be set.

■ **Screen Mode → 16:9 / Wide Zoom / Zoom / 4:3**

When setting the picture size to **Auto Wide** in a 16:9 wide TV, you can determine the picture size you want to see the 4:3 WSS (Wide Screen Service) image or nothing. Each individual European country requires different picture size so this function is intended for users to select it.

- **16:9**: Sets the picture to 16:9 wide mode.
- **Wide Zoom**: Magnify the size of the picture more than 4:3.
- **Zoom**: Magnify the size of the picture vertically on screen.
- **4:3**: Sets the picture to 4:3 normal mode.

This function is available in **Auto Wide** mode.

This function is not available in **PC**, **Component** or **HDMI** mode.

■ **Digital NR → Off / Low / Medium / High / Auto**

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

When the signal is weak, select one of the other options until the best picture is displayed.

■ **DNIe → Off / Demo / On**

This TV includes the DNIe function so as to provide a high visual quality. If you set DNIe to on, you can view the screen with the DNIe feature activated. If you set the DNIe to Demo, you can view the applied DNIe and normal pictures on the screen, for demonstration purposes. Using this function, you can view the difference in the visual quality.

DNIe™ (Digital Natural Image engine) DNIe™

This feature brings you more detailed image with 3D noise reduction, detail enhancement, contrast enhancement and white enhancement. New image compensation Algorithm gives brighter, clearer, more detailed image to you. DNIe™ technology will fit every signal into your eyes.

This function is not available in **Movie** and **Standard** mode.

■ **HDMI Black Level → Normal / Low**

You can directly select the black level on the screen to adjust the screen depth.

This function is active only when the external input connects to HDMI (RGB signals).

■ **Real 100Hz Demo→ Off / On**

You can get a clear distinction between **Real 100Hz** and 50Hz, especially when watching fast moving scenes. Therefore, when seeing slow moving scenes, you will not be able to distinguish between **Real 100Hz and 50Hz.** Demo 100Hz works only with 50Hz signal. Real 100Hz demo mode is provided for shop demonstration with special pictures.

■ **Movie Plus → Off / Low / Medium / High / Demo**

You can view more natural skin and clear text even in fast moving scenes.

- Use this function when watching movies.
- This function is not available in **Wide Zoom** and **Zoom** modes.
- This function is not available when **PIP** is set to **On**.
- It is not supported in HDMI 1080p/24Hz, 25Hz, 30Hz mode.

■ **Blue Only Mode → Off / On**

This function is for AV device measurement experts. This function displays the blue signal only by removing the red and green signals from the video signal so as to provide a Blue Filter effect that is used to adjust the Colour and Tint of video equipment such as DVD players, Home Theaters, etc. Using this function, you can adjust the Colour and Tint to preferred values appropriate to the signal level of each video device using the Red / Green / Blue / Cyan / Magenta / Yellow Colour Bar Patterns, without using an additional Blue Filter.

- **Blue Only Mode** is available when the picture mode is set to **Movie** or **Standard**.

■ **Screen Burn Protection**

To reduce the possibility of screen burn, this unit is equipped with screen burn prevention technology. This technology enables you to set picture movement up/down (Vertical Line) and side to side (Horizontal Dot). The Time setting allows you to program the time between movement of the picture in minutes.

- **Pixel Shift**: Using this function, you can minutely move pixels on the PDP in horizontal or vertical direction to minimize after image on the screen.

  - Set **Pixel Shift** to On by pressing the ▲ or ▼ button, then press the **ENTER** button.
  - Select the required option by pressing the ▲ or ▼ button, then press the **ENTER** button.
  - Available options: **Horizontal Dot, Vertical Line, Time**.
  - Optimum condition for pixel shift;

	PC	TV/Ext/AV/Component/HDMI
Horizontal Dot	4	4
Vertical Line	4	4
Time (minute)	4	2 min

  - The Pixel Shift value may differ depending on the monitor size (inches) and mode.
  - This function is not available in the **Just Scan** mode.

- **All White**: This function helps remove after images on the screen by changing the colour of pixels to white. Use this function when there are remaining after images or symbols on the screen especially when you displayed a still image on the screen for a long time.
- **Scrolling**: This function helps remove after images on the screen by moving all the pixels on the PDP according to a pattern Use this function when there are remaining after images or symbols on the screen especially when you displayed a still image on the screen for a long time.
- **Side Gray**: When you watch TV with the screen ratio of 4:3, the screen is prevented from any damage by adjusting the white balance on both extreme left and right sides.
  - **Dark**: When you set the screen ratio to 4:3, it darkens the left and right sides.
  - **Light**: When you set the screen ratio to 4:3, it brightens the left and right sides.

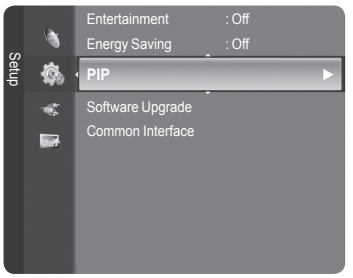
❑ Picture Reset → Reset Picture Mode / Cancel

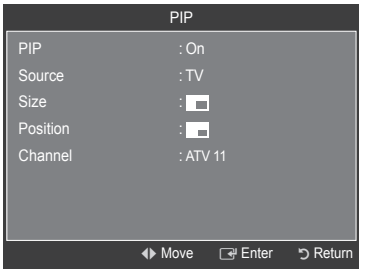
Resets all picture settings to the default values.

- Select a picture mode to be reset. The reset is performed for each picture mode.

Viewing Picture-in-Picture

You can display a sub picture within the main picture of set programme or video input. In this way, you can watch the picture of set programme or video input from any connected equipment while watching the main picture.





You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.

Press the **TOOLS** button to display **Tools** menu.
You can also configure PIP related settings by selecting **Tools** → **PIP**.

❑ PIP → Off / On

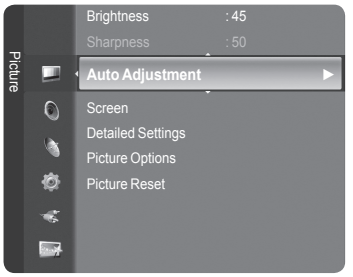
You can activate or deactivate the PIP function.

Main picture	Sub picture
Component HDMI 1, HDMI2/DVI, HDMI 3, HDMI 4 PC	TV, Ext.1, Ext.2, AV

- **Source**
  You can select a source of the sub-picture.
- **Size** → / /
  You can select a size of the sub-picture.
  If main picture is in **HDMI** mode, **Size** is available.
- **Position** → / / /
  You can select a position of the sub-picture.
  In Double (,) mode, **Position** cannot be selected.
- **Channel**
  You can select a channel of the sub-picture only when the **Source** is set to **TV**.
  Press the **TOOLS** button to display **Tools** menu.
  You can also set the picture mode by selecting **Tools** → **PIP**

Setting up the TV with your PC

Preset: Press the **SOURCE** button to select **PC** mode.



❑ Auto Adjustment

Auto Adjustment allows the PC screen of set to self-adjust to the incoming PC video signal. The values of fine, coarse and position are adjusted automatically.

This function does not work in DVI-HDMI mode.

Press the **TOOLS** button to display **Tools** menu.
You can also set the Auto Adjustment by selecting **Tools** → **Auto Adjustment**.

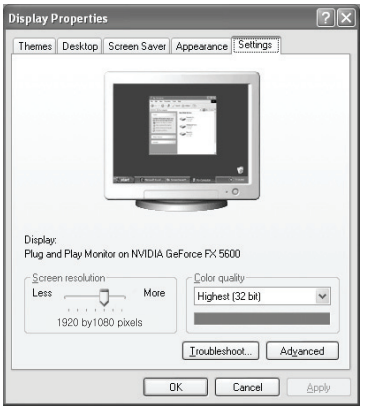
❑ Screen

- **Coarse / Fine**: The purpose of picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (Coarse) and Fine-tune again. After the noise has been reduced, readjust the picture so that it is aligned on the center of screen.
- **PC Position**: Adjust the PC's screen positioning if it does not fit the TV screen. Press the ▲ or ▼ button to adjusting the Vertical-Position. Press the ◄ or ► button to adjust the Horizontal-Position.
- **Image Reset**: You can replace all image settings with the factory default values.

PC Display

Setting Up Your PC Software (Based on Windows XP)

The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)



1. First, click on 'Control Panel' on the Windows start menu.
2. When the control panel window appears, click on 'Appearance and Themes' and a display dialog-box will appear.
3. When the control panel window appears, click on 'Display' and a display dialog-box will appear.
4. Navigate to the 'Settings' tab on the display dialog-box.

   The correct size setting (resolution)

   Optimum: 1920 X 1080 pixels

   If a vertical-frequency option exists on your display settings dialog box, the correct value is '60' or '60 Hz'. Otherwise, just click 'OK' and exit the dialog box.

Display Modes

Both screen position and size will vary depending on the type of PC monitor and its resolution.
The resolutions in the table are recommended.

■ D-Sub Input

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
IBM	640 x 350	31.469	70.086	25.175	+ / -
	720 x 400	31.469	70.087	28.322	- / +
VESA	640 x 480	31.469	59.940	25.175	- / -
	640 x 480	37.861	72.809	31.500	- / -
	640 x 480	37.500	75.000	31.500	- / -
	800 x 600	37.879	60.317	40.000	+ / +
	800 x 600	48.077	72.188	50.000	+ / +
	800 x 600	46.875	75.000	49.500	+ / +
	1024 x 768	48.363	60.004	65.000	- / -
	1024 x 768	56.476	70.069	75.000	- / -
	1024 x 768	60.023	75.029	78.750	+ / +
	1280 x 1024	63.981	60.020	108.000	+ / +
	1280 x 1024	79.976	75.025	135.000	+ / +
	1360 x 768	47.712	60.015	85.500	+ / +
	1600 x 1200	75.000	60.000	162.000	+ / +
CVT	1920 x 1080RB	66.587	59.934	138.500	+ / -

■ HDMI / DVI Input

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
VESA	640 x 480	31.469	59.940	25.175	- / -
	800 x 600	37.879	60.317	40.000	+ / +
	1024 x 768	48.363	60.004	65.000	- / -
	1280 x 1024	63.981	60.020	108.000	+ / +
	1360 x 768	47.712	60.015	85.500	+ / +
	1600 x 1200	75.000	60.000	162.000	+ / +
CEA	1920 x 1080p	67.500	60.000	148.500	+ / +

- When using an HDMI / DVI cable connection, you must use the **HDMI IN 2** jack.
- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.
- Separate and Composite modes are supported. SOG is not supported.
- Too long or low quality VGA cable can cause picture noise at high resolution modes (1920x1080).

Sound Control

Changing the Sound Standard

❑ Mode → Standard / Music / Movie / Speech / Custom

You can select the type of special sound effect to be used when watching a given broadcast.

Press the **TOOLS** button to display **Tools** menu.
You can also configure the sound mode by selecting **Tools** → **Sound Mode**.

❑ Equalizer

The sound settings can be adjusted to suit your personal preferences.

- **Mode**: You can select a sound mode to suit your personal preferences.
- **Balance**: Controls the balance between the right and left speakers.
- **100Hz / 300Hz / 1kHz / 3kHz / 10kHz** (Bandwidth Adjustment): To adjust the level of different bandwidth frequencies
- **Reset**: Resets the equalizer settings to the default values.

❑ SRS TruSurround XT → Off / On

TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

Press the **TOOLS** button to display **Tools** menu.
You can also set the **SRS TruSurround XT** by selecting **Tools** → **SRS TS XT**.

SRS (●) SRS TruSurround XT

TruSurround XT, SRS and (●) Symbol are trademarks of SRS Labs, Inc. **TruSurround XT** technology is incorporated under license from SRS Labs, Inc.

❑ Audio Language

You can change the default value for audio languages. Displays the language information for the incoming stream.

While viewing a digital channel, this function can be selected.
You can only select the language among the actual languages being broadcast.

❑ Audio Format → MPEG / Dolby Digital

When sound is emitted from both the main speaker and the audio receiver, a sound echo may occur due to the decoding speed difference between the main speaker and the audio receiver. In this case, use the TV Speaker function.

While viewing a digital channel, this function can be selected.
You can only select the language among the actual languages being broadcast.

DOLBY DIGITAL

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

❑ Audio Description

This is an auxiliary audio function that provides an additional audio track for visually challenged persons. This function handles the Audio Stream for the AD (Audio Description), when it is sent along with the Main audio from the broadcaster. Users can turn the Audio Description On or Off and control the volume.

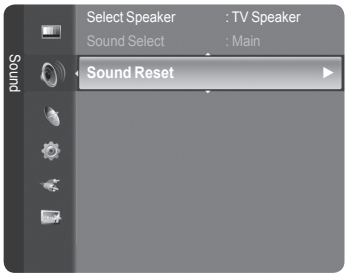
- **Audio Description → Off / On**: Turn the audio description function on or off.
- **Volume**: You can adjust the audio description volume.

Volume is active when **Audio Description** is set to **On**.

While viewing a Digital channel, this function can be selected.

❑ Auto Volume → Off / On

Each broadcasting station has its own signal conditions, and so it is not easy to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.



❑ Select Speaker → External Speaker / TV Speaker

If you want to hear the sound through separate speakers, cancel the internal amplifier.

- The **– +**, **MUTE** buttons do not operate when the **TV Speaker** is set to **Off**.
- If you select **External Speaker** in the **Select Speaker** menu, the sound settings will be limited.

	TV's Internal Speakers	Audio Out (Optical, L / R Out) to Sound System
	TV / Ext. / AV / S-Video / Component / PC / HDMI	TV / Ext. / AV / S-Video / Component / PC / HDMI
TV Speaker	Speaker Output	Sound Output
External Speaker	Mute	Sound Output
Video No Signal	Mute	Mute

❑ Sound Select

When the PIP feature is activated, you can listen to the sound of the sub (PIP) picture.

- **Main**: Used to listen to the sound of the main picture.
- **Sub**: Used to listen to the sound of the sub picture.

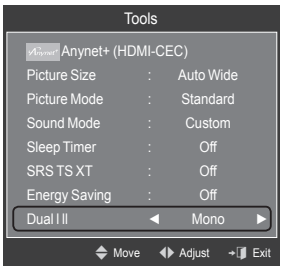
Press the **TOOLS** button to display **Tools** menu.
You can also set the sound of the sub picture by selecting **Tools** → **PIP** → **Sound Select**.

❑ Sound Reset

- **Reset All / Reset Sound Mode / Cancel**: You can restore the Sound settings to the factory defaults.

Selecting the Sound Mode

You can set the sound mode in the **Tools** menu. When you set to **Dual I II**, the current sound mode is displayed on the screen.



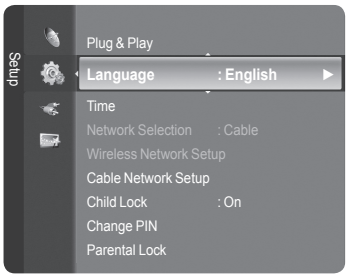
	Type of broadcast	On-screen indication
NICAM Stereo	Regular broadcast (Standard audio)	**Mono** (Normal use)
	Regular + NICAM Mono	**NICAM** ↔ **Mono** (Normal)
	NICAM-Stereo	**NICAM Stereo** ↔ **Mono** (Normal)
	NICAM Dual-I/II	**NICAM Dual-1** → **NICAM Dual-2** → **Mono** (Normal)
A2 Stereo	Regular broadcast (Standard audio)	**Mono** (Normal use)
	Bilingual or DUAL-I/II	**Dual I** ↔ **Dual II**
	Stereo	**Stereo** ↔ **Mono** (Forced mono)

- If the stereo signal is weak and an automatic switching occurs, then switch to the mono.
- This function is only activated in stereo sound signal. It is deactivated in mono sound signal.
- This function is only available in **TV** mode.

Configuring the Setup Menu

❑ Language

You can set the menu language.



❑ Child Lock → Off / On

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio.

- Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is **0-0-0-0**. You can change the PIN by selecting **Change PIN** from the menu.
- You can lock some channels in Channel List. (refer to page 14)
- **Child Lock** is available only in TV mode. .

❑ Change PIN

You can change your personal ID number that is required to set up the TV.

- Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is **0-0-0-0**.
- If you forget the PIN code, press the remote control buttons in the following sequence, which resets the PIN to 0-0-0-0: POWER (Off), MUTE, 8, 2, 4, POWER (On).

❑ Parental Lock → Parental Rating

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by a 4-digit PIN (Personal Identification Number) code that is defined by the user.

- In the **Parental Rating** screen, configure the parental ratings.

- Before the setup screen appears, the PIN number input screen appears. Enter your 4 digit PIN number.
- The default PIN number of a new TV set is **0-0-0-0**. You can change the PIN by selecting **Change PIN** from the menu.
- When the parental ratings are set, the 🔒 symbol is displayed.
- **Allow All**: Press to unlock all TV ratings.
  Block All: Press to lock all TV ratings.

❑ Subtitle

You can activate and deactivate the subtitles. Use this menu to set the Subtitle Mode. **Normal** under the menu is the basic subtitle and **Hard of hearing** is the subtitle for a hearing-impaired person.

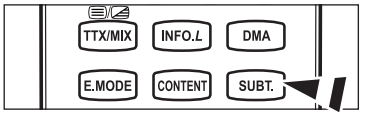
- **Subtitle → Off / On**: Switches subtitles off or on.
- **Mode → Normal / Hard of hearing**: Sets the subtitle mode.
- **Subtitle Language**: Set the subtitle language.

- If the programme you are watching does not support the **Hard of hearing** function, **Normal** automatically activates even though **Hard of hearing** mode is selected.
- English is the default in cases where the selected language is unavailable in the broadcast.
- You can select these options simply by pressing the **SUBT.** button on the remote control.

❑ Teletext Language

You can set the Teletext language by selecting the language type.

- English is the default in cases where the selected language is unavailable in the broadcast.



❑ Preference

- Primary Audio Language / Secondary Audio Language / Primary Subtitle Language / Secondary Subtitle Language / Primary Teletext Language / Secondary Teletext Language

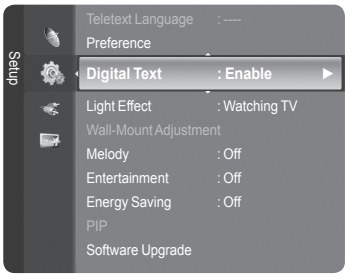
  Using this feature, users can select one of the languages. The language selected here is the default when the user selects a channel.

  If you change the language setting, the Subtitle Language, Audio Language, and the Teletext Language of the Language menu are automatically changed to the selected language.

  The Subtitle Language, Audio Language, and the Teletext Language of the Language menu show a list of languages supported by the current channel and the selection is highlighted. If you change this language setting, the new selection is only valid for the current channel. The changed setting does not change the setting of the Primary Subtitle Language, Primary Audio Language, or the Primary Teletext Language of the Preference menu.

❑ Digital Text → Disable / Enable

If the programme is broadcast with digital text, this feature is enabled.



MHEG (Multimedia and Hypermedia Information Coding Experts Group)

An International standard for data encoding systems used in multimedia and hypermedia. This is at a higher level than the MPEG system which includes data-linking hypermedia such as still images, character service, animation, graphic and video files as well as multimedia data. MHEG is user runtime interaction technology and is being applied to various fields including VOD (Video-On-Demand), ITV (Interactive TV), EC (Electronic Commerce), tele-education, tele-conferencing, digital libraries and network games.

❑ Light Effect → Off / In Standby / Watching TV / Always

You can turn on/off the blue LED on the front of TV according to the situation. Use it for saving power or when the LED dazzles your eyes.

- **Off**: The blue LED is always off.
- **In Standby**: The blue LED lights while in Standby mode and it turns off when your TV is turned on.
- **Watching TV**: The blue LED lights when watching TV and it turns off when your TV is turned off.
- **Always**: The blue LED always lights.

Set the Light Effect to Off to reduce the power consumption.

❑ Melody

- **Off / Low / Medium / High**

  The TV power on / off melody sound can be adjusted.

The Melody does not play

- When no sound is output from the TV because the **MUTE** button has been pressed.
- When no sound is output from the TV because the – (Volume) button has been pressed.
- When the TV is turned off by **Sleep Timer** function.

❑ Entertainment

The **Entertainment** mode enables you to select the optimal display and sound for sports, cinema and games.

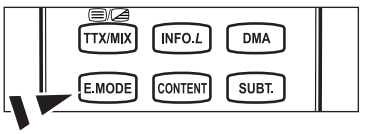
- **Off**: Switches the **Entertainment** function off.
- **Sports**: Provides the optimal picture and sound quality for sports.
- **Cinema**: Provides the optimal picture and sound quality for movie watching. You can experience a richer picture and enhanced sound.
- **Game**: Provides the optimal picture and sound quality for games. This mode accelerates the playing speed when using an external game console connected to the TV.

If you set any of the three **Entertainment** modes to On, the settings will be locked and can not be adjusted. In addition, Picture and Sound mode settings are not allowed. If you want to make Picture and Sound mode adjustments, the **Entertainment** mode must be turned off.

The **Entertainment** settings are saved for each input source.

Entertainment mode is not activated in **PC** mode.

You can press the **E.MODE** button on the remote control repeatedly to change the **Entertainment** setting.



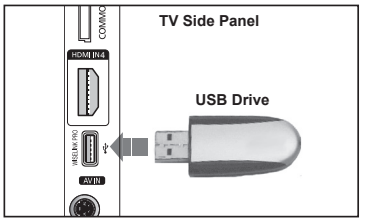
❑ Energy Saving

This feature adjusts the brightness of the TV in order to reduce power consumption. When watching TV at night, set the **Energy Saving** mode option to **High** to reduce eye fatigue as well as power consumption.

- **Off**: Turns off the energy saving function.
- **Low**: Sets the TV to low energy saving mode.
- **Medium**: Sets the TV to medium energy saving mode.
- **High**: Sets the TV to high energy saving mode.

Press the **TOOLS** button to display **Tools** menu.
You can also set the Energy Saving option by selecting **Tools** → **Energy Saving**.

❑ Software Upgrade



To keep your product up-to-date with new Digital Television features then software upgrades are periodically broadcast as part of the normal Television signal. It will automatically detect these signals and display the software upgrade banner. You are given the option to install the upgrade.

- **BY USB**

Insert a USB drive containing the firmware upgrade into TV. Please be careful to not disconnect the power or remove the USB drive while upgrades are being applied. The TV will turn off and turn on automatically after completing the firmware upgrade. Please check the firmware version after the upgrades are complete. When software is upgraded, video and audio settings you have made will return to their default (factory) settings. We recommend you write down your settings so that you can easily reset them after the upgrade.

- **BY Channel**

Upgrades the software using the broadcasting signal.

- **Standby Mode Upgrade**

To continue software upgrade with master power on, Select On by pressing the ▲ or ▼ button. 45 minutes after entering standby mode, a manual upgrade is automatically conducted. Since the power of the unit is turned on internally, the screen may be on slightly for the product. This phenomenon may continue for more than 1 hour until the software upgrade is completed.

- **Alternative Software**

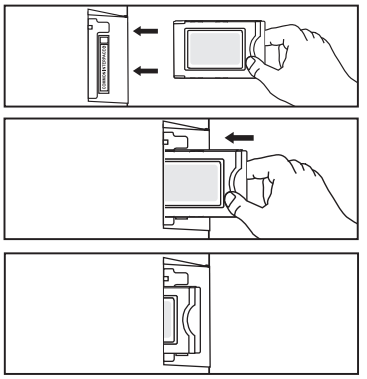
To display the software version information.

❑ Common Interface

- **Installing the CI Card**

a. Purchase the CI CAM module by visiting your nearest dealer or by phone.
b. Insert the CI CARD into the CAM in the direction of the arrow until it fits.
c. Insert the CAM with the CI CARD installed into the common interface slot.

Insert the CAM in the direction of the arrow, right up to the end so that it is parallel with the slot.



d. Check if you can see a picture on a scrambled signal channel.

- **CI Menu**

This enables the user to select from the CAM-provided menu.
Select the CI Menu based on the menu PC Card.

- **Application Info.**

This contains information on CAM inserted in the CI slot and displays it.
The Application Info inserting is about the CI CARD. You can install the CAM anytime whether the TV is ON or OFF.

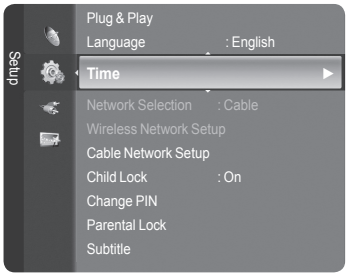
1. Purchase the CI CAM module by visiting your nearest dealer or by phone.
2. Insert the CI CARD into the CAM in the direction of the arrow until it fits.
3. Insert the CAM with the CI CARD installed into the common interface slot. (Insert the CAM in the direction of the arrow, right up to the end so that it is parallel with the slot.)
4. Check if you can see a picture on a scrambled signal channel.

Setting the Time

❑ Clock

Setting the clock is necessary in order to use the various timer features of the TV.

- The current time will appear every time you press the **INFO** button.
- If you disconnect the power cord, you have to set the clock again.

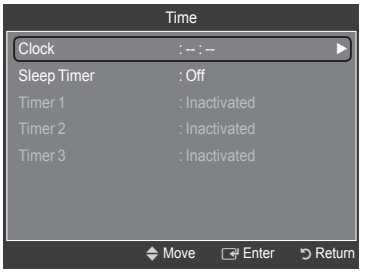


- **Clock Mode**

  You can set up the current time manually or automatically.
  - **Auto**: Set the current time automatically using the time from the digital broadcast.
  - **Manual**: Set the current time to a manually specified time.

- **Clock Set**

  You can set the current time manually.
  - Set up this item when you have set **Clock Mode** to **Manual**.
  - You can set the day, month, year, hour, minute directly by pressing the number buttons on the remote control.



❑ Sleep Timer → Off / 30 min / 60 min / 90 min / 120 min / 150 min / 180 min

The sleep timer automatically shuts off the TV after a preset time (30, 60, 90, 120, 150 and 180 minutes).

- The TV automatically switches to standby mode when the timer reaches 0.
- To cancel the **Sleep Timer** function, select **Off**.
- Press the **TOOLS** button to display **Tools** menu.
  You can also set the sleep timer by selecting **Tools** → **Sleep Timer**.

❑ Timer 1 / Timer 2 / Timer 3

Three different on / off timer settings can be made.

- **On Time**: Set the hour, minute, and Activate / Inactivate.
  (To activate timer with the setting you've chosen, set to **Activate**.)
- **Off Time**: Set the hour, minute, and Activate / Inactivate.
  (To activate timer with the setting you've chosen, set to **Activate**.)
- **Volume**: Set the required volume level.
- **Contents**: When the **On Timer** is active, you can turn on a specific channel or play back contents such as photo or audio files.
  - **TV / USB**: Select TV or USB. (Make sure that an USB device is connected to your TV.)
  - **Antenna**: Select ATV or DTV.
  - **Channel**: Select the desired channel.
  - **Music**: Select the folder containing MP3 files on the USB device.
  - **Photo**: Select the folder containing JPEG files on the USB device.
- **Repeat**: Select **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, **Sat~Sun**, or **Manual**.
  - When **Manual** is selected, press the ► button to select the desired day of the week. Press the **ENTER** button over the desired day and the ✓ mark will appear.
  - You must set the clock first.

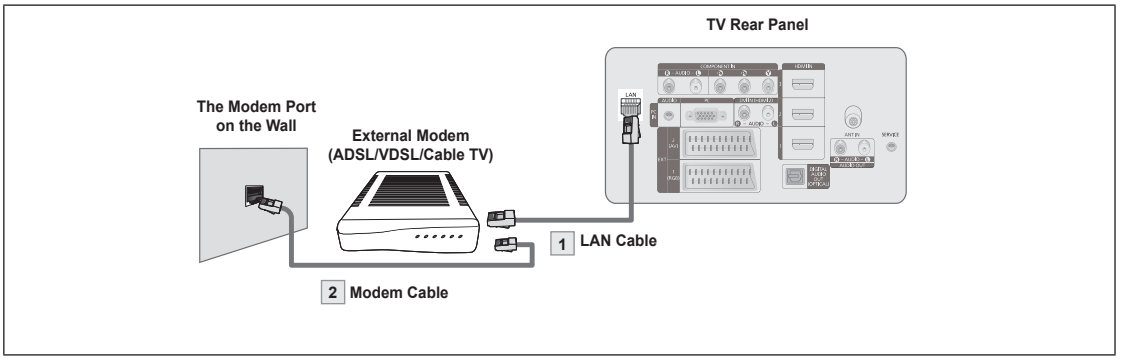
- You can set the hour, minute and channel by pressing the number buttons on the remote control.
- **Auto Power Off**
  When you set the timer On, the television will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by the timer. This function is only available in timer On mode and prevents overheating, which may occur if a TV is on for too long time.

Network Connection

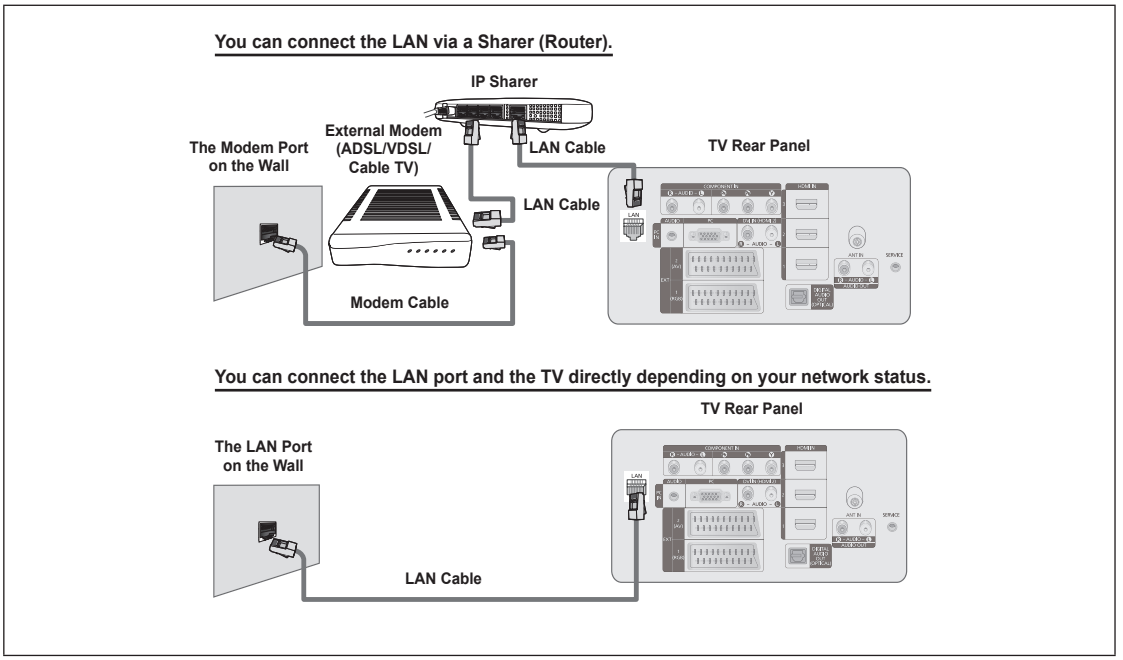
Network Connection - Cable

- Cable Connection for a DHCP Environment

  The procedures to set up the network using Dynamic Host Configuration Protocol (DHCP) are described below. Since an IP address, subnet mask, gateway, and DNS are automatically allocated when DHCP is selected, you do not have to enter them manually.



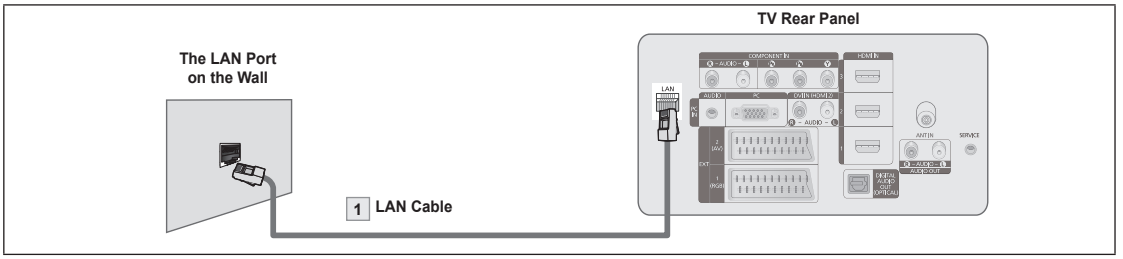
1. Connect the [LAN] port on the rear panel of the TV and the external modem with a LAN Cable.
2. Connect the LAN port on the wall and the external modem with a Modem Cable.


You can connect the LAN via a Sharer (Router).
IP Sharer
External Modem (ADSL/VDSL/ Cable TV)
The Modem Port on the Wall
LAN Cable
LAN Cable
TV Rear Panel
Modem Cable
You can connect the LAN port and the TV directly depending on your network status.
TV Rear Panel
The LAN Port on the Wall
LAN Cable

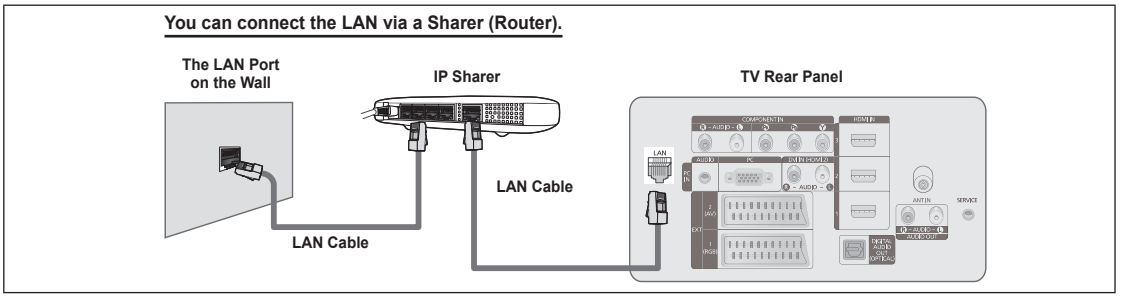
- The terminals (the position of the port and the type) of the external device may differ depending on the manufacturer.
- If the IP address allocation by the DHCP server has failed, turn the external modem off, turn it on again after at least 10 seconds and then try again.
- For the connections between the external modem and the Sharer (Router), refer to the owner's manual of the corresponding product.
- You can connect the TV to the LAN directly without connecting it through a Sharer (Router).
- You cannot use a manual-connection-type ADSL modem becaus;e it does not support DHCP. You have to use an automatic-connection-type ADSL modem.

■ LAN Connection for Static IP Environment

The procedures to set up the network using a static IP address are described below. You have to manually enter the IP address, subnet mask, gateway, and DNS that are provided by your Internet Service Provider (ISP).



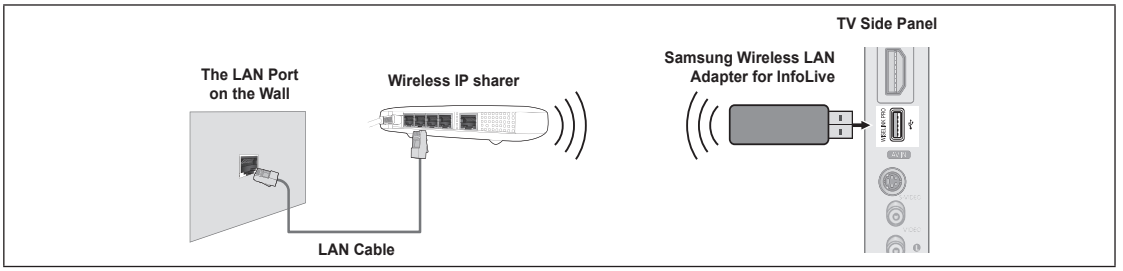
1. Connect the [LAN] port on the rear panel of the TV and the LAN port on the wall using the LAN cable.



- The terminals (the position of the port and the type) of the external device may differ depending on the manufacturer.
- If you are using a static IP address, your ISP will inform you of the IP address, subnet mask, gateway, and DNS. You must enter these values to complete the network settings. If you do not know the values, ask your network administrator.
- For the information on how to configure and connect a Sharer (Router), refer to the owner's manual for the corresponding product.
- You can connect the TV to the LAN directly without connecting it through a Sharer (Router).
- If you use an IP Sharer (IP Router) that supports DHCP, you can set up the device as either DHCP or static IP.
- For the procedures to use a static IP address, ask your Internet Service Provider.

Network Connection - Wireless

You can connect to the network wirelessly through a wireless IP sharer.



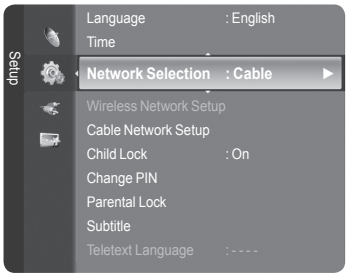
1. Connect the 'Samsung Wireless LAN Adapter for InfoLive' into the Wiselink terminal of the TV.

- You must use the 'Samsung Wireless LAN Adapter for InfoLive'(WIS-08BG) to use a wireless network.
- The 'Samsung Wireless LAN Adapter for InfoLive' is sold separately. Contact a Samsung Electronics agent or service center for purchasing.
- To use a wireless network, your TV must be connected to a wireless IP sharer.
- If the wireless IP sharer supports DHCP, you TV can use a DHCP or static IP address to connect to the wireless network.
- You must use a wireless IP sharer that supports IEEE 802.11 B or IEEE 802.11G.
- If the wireless IP sharer allows you to turn on / off the Ping connection function, turn it on.
- Set the wireless IP sharer to Infrastructure mode. Ad-hoc mode is not supported.
- Select a channel for the wireless IP sharer that is not currently being used. If the channel set for the wireless IP sharer is currently being used by another device nearby, this will result in interference and communications may fail.
- When applying the security key for the AP (wireless IP sharer), only the following is supported.
  1) Authentication Mode : WEP, WPAPSK, WPA2PSK
  2) Encryption Type : WEP, TKIP, AES
  If you apply a security system other than the systems listed above, it will not work with the TV.

Network Setup

❑ Network Selection

Select Cable or Wireless as the method to connect to the network.



✎ The menu is activated only if the 'Samsung Wireless LAN Adapter for InfoLive' is connected.

- **Cable**: Connect to network using a cable.
- **Wireless**: Connect to network wirelessly.

❑ Cable Network Setup

- **Internet Protocol Setup → Auto Setup / Manual Setup**
- **Network Test**: You can test or confirm the network connection status after setting up the network.

✎ **When unable to connect to a wired network**

If your Internet service provider has registered the MAC address of the device used to connect to the Internet for the first time and authenticates the MAC address each time you connect to the Internet, your TV may not be able to connect to the Internet as the MAC address differs from that of the device (PC) used to connect to the Internet the first time. In this case, ask your Internet service provider about the procedures to connect devices other than your PC (such as your TV) to the Internet. If your Internet service provider requires an ID or password to connect to the Internet (network), your TV may not be able to connect to the Internet. In this case, you have to enter your ID or password when connecting to the Internet using an Internet Sharer (Router).

The internet connection may fail due to a firewall problem. In this case, contact your Internet service provider. If you cannot connect to the Internet even if you have followed the procedures of your Internet service provider, please contact a Samsung Electronics Service Center.

❑ Wireless Network Setup

- **Internet Protocol Setup → Auto Setup / Manual Setup**
- **Network Test**: You can test or confirm the network connection status after setting up the network.

✎ **When unable to connect to a wireless network**

Your TV may fail to locate an AP that is configured as a private SSID type. In this case, please change the AP settings and try again. If your Internet service provider has registered the MAC address of the device used to connect to the Internet for the first time and authenticates the MAC address each time you connect to the Internet, your TV may not be able to connect to the Internet as the MAC address differs from that of the device (PC) used to connect to the Internet the first time. In this case, ask your Internet service provider about the procedures to connect devices other than your PC (such as your TV) to the Internet. If you cannot connect to the Internet even if you have followed the procedures of your Internet service provider, please contact a Samsung Electronics Service Center.

- **Select Access Point**: You can select the IP sharer to use when using a wireless network.

✎ If a wireless Access Point is not in the Access Point list, press the Red button.

✎ When the connection is made, you will be returned to the screen automatically.

✎ If you selected an Access Point that requires security authentication, enter the security key.

✎ If you have selected an Access Point with a security authentication:

- The Security Key input screen appears.
- Enter the security key and press the **ENTER** button.
- Using the Remote Control Buttons on the Security Key Input Screen.

✎ Setup Screen can be different depending on the security types.

Button	Operations
▲/▼/◄/►, (Wheel)	Moves the selection up/down/left/right.
(**ENTER**)	Enters (Inputs) the selected character.
Red button	Switch between Upper- and Lower-Case Letters
Green button	You can delete an already entered character.
Blue button	Press this button to finish entering the security key.

Cable Network Setup-Auto Setup

If you connect the LAN cable and it supports DHCP, the Internet Protocol (IP) Settings are automatically configured. Please check if the LAN cable is connected. (See page 27)

1. Set **Network Selection** to **Cable**.
2. Select **Cable Network Setup**.
3. Set **Internet Protocol Setup** to **Auto Setup**.
4. Select **Network Test** to check the network connectivity.

Cable Network Setup-Manual Setup

To connect the TV to the LAN using a static IP address, you must set up the Internet Protocol (IP). Please check if the LAN cable is connected. (See page 27)

1. Set **Network Selection** to **Cable**.
2. Select **Cable Network Setup**.
3. Set **Internet Protocol Setup** to **Manual Setup**.
4. Set up **IP Address**, **Subnet Mask**, **Gateway** and **DNS Server**.

   Press the number buttons on the remote control when you set the Network manually.
5. Select **Network Test** to check the network connectivity.

Wireless Network Setup-Auto Setup

The menu is activated only if the 'Samsung Wireless LAN Adapter for InfoLive' is connected. (See page 28)

If you connect the LAN cable and it supports DHCP, the Internet Protocol (IP) Settings are automatically configured. The wireless IP sharer to be connected to this product must support DHCP.

1. Set **Network Selection** to **Wireless**.
2. Select **Wireless Network Setup**.
3. Set **Internet Protocol Setup** to **Auto Setup**.
4. Select an AP through **Select Access Point**.
5. Select **Network Test** to check the network connectivity.

Wireless Network Setup-Manual Setup

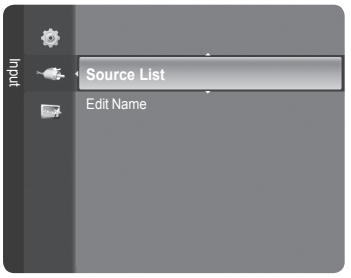
The menu is activated only if the 'Samsung Wireless LAN Adapter for InfoLive' is connected. (See page 28)

1. Set **Network Selection** to **Wireless**.
2. Select **Wireless Network Setup**.
3. Set **Internet Protocol Setup** to **Manual Setup**.
4. Select an AP through **Select Access Point**.
5. Select **Network Test** to check the network connectivity.

Source List / Edit Name

❑ Source List

Use to select TV or other external input sources such as DVD players or Cable Box / Satellite receivers (Set-Top Box) connected to the TV. Use to select the input source of your choice.

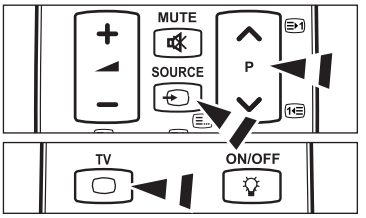


- TV, Ext.1, Ext.2, AV, S-Video, Component, PC, HDMI1, HDMI2 / DVI, HDMI3, HDMI4, USB, DLNA.

  You can choose only those external devices that are connected to the TV. In the **Source List**, connected inputs will be highlighted and sorted to the top. Inputs that are not connected will be sorted to the bottom.

  Using the Colour buttons on the remote with the Source list
  - **Red** (Refresh): Refreshes the connecting external devices.
  - **TOOLS** (Option): Displays the **Edit Name** and **Information** menus.

  Press the **SOURCE** button on the remote control to view an external signal source. TV mode can be selected by pressing the **TV** button, number buttons (**0~9**), and the **P** ∧ / ∨ button on the remote control.



❑ Edit Name

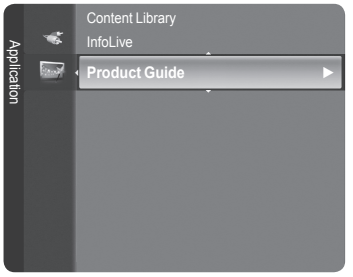
- VCR / DVD / Cable STB / Satellite STB / PVR STB / AV Receiver / Game / Camcorder / PC / TV / IPTV / Blu-Ray / HD DVD / DMA

  Name the device connected to the input jacks to make your input source selection easier.

  When a PC with a resolution of 1920 x 1080@60Hz is connected to the **HDMI IN 2** port, you should set the **HDMI2 / DVI** mode to **PC** in the **Edit Name** of the **Input** mode.

Product Guide

The Product Guide gives you information on the most important features of this TV.



1. Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select **Application**, then press the **ENTER** button.
2. Press the ▲ or ▼ button to select **Product Guide**, then press the **ENTER** button.
3. Press the ◄ or ► button to select a Guide (**Picture Quality, Entertainment** or **Connectivity**) and press the **ENTER** button.
4. You can navigate the Product Guide screen by using the ◄ and ► buttons.

Picture Quality	Full HD 1080p
	Ultra FilterBright
	Real 100Hz(50") / 100Hz Dual Scan(63")
Entertainment	InfoLive
	Content Library
	Entertainment Mode
Connectivity	WISELINK Pro
	DLNA
	4HDMI
	Anynet+

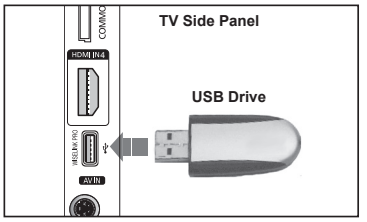
5. Press the **EXIT** button to exit.

Using the Remote Control Button in Product Guide Menu

Button	Operations
Yellow button	Shows the contents of the Product Guide sequentially. (AutoPlay)
▲/▼/◄/► (Wheel)	Move the cursor and select an item.
ENTER	Select the currently selected item.
RETURN	Return to the previous menu.
EXIT	Stop the current function and return to the **Product Guide** main menu.
P ∧/∨, **PRE-CH**	Stop Product Guide mode and Returns to TV mode

WISELINK Pro

Connecting a USB Device



1. Press the **POWER** button to turn the TV on.
2. Connect a USB device containing photo, music and/or movie files to the WISELINK jack (USB jack) on the side of the TV.

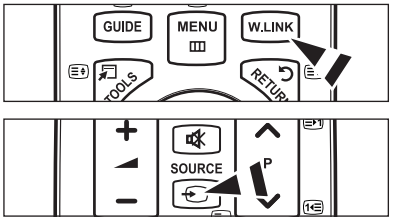
- If you enter the WISELINK Pro mode with no USB device connected the message 'No external storage device found. Check the connection status.' will appear. In this case, insert the USB device, exit the screen by pressing the **W.LINK** button on the remote control and enter the WISELINK Pro screen again.
- MTP (Media Transfer Protocol) is not supported.
- The file system only supports FAT16/32 (The NTFS file system is not supported).
- Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- WISELINK Pro only supports USB Mass Storage Class devices (MSC). MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers (Both USB HDD and HUB are not supported.)
- Please connect directly to the USB port of your TV. If you are using a separate cable connection, there may be a USB compatibility problem.
- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
- Do not disconnect the USB device while it is loading.
- MSC supports MP3 and JPEG files, while a PTP device supports JPEG files only.
- The sequential JPEG format is supported.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360X8640 pixels.
- For unsupported or corrupted files, the **Not Supported File Format** message is displayed.
- If the number of photo files exceeds 4000 (or the number of music files exceeds 3000), any files exceeding the 4000 limit may not be displayed in the Photo List (or Music List).
- MP3 files with DRM that have been downloaded from a non-free site cannot be played. Digital Rights Management (DRM) is a technology that supports the creation of content, the distribution and management of the content in an integrated and comprehensive way, including the protection of the rights and interests of the content providers, the prevention of the illegal copying of contents, as well as managing billings and settlements.
- When moving to a photo, loading may take a few seconds. At this point, the loading icon will appear at the screen.

Using the WISELINK Pro Function

This function enables you to view and listen to photo, music and/or movie files saved on a USB Mass Storage Class (MSC) device.

Entering the WISELINK Pro Menu

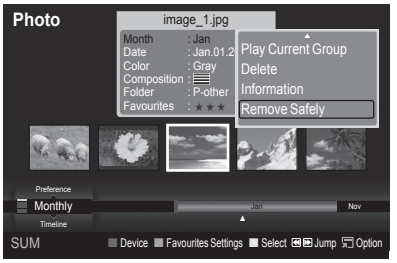
1. Press the **MENU** button. Press the ▲ or ▼ button to select **Application**, then press the **ENTER** button.
2. Press the ▲ or ▼ button to select **WISELINK Pro**, then press the **ENTER** button.
   - The **WISELINK Pro** menu is displayed.
   - Press the **W.LINK** button on the remote control to display the **WISELINK Pro** menu.
   - Press the **SOURCE** button on the remote control repeatedly to select **USB or DLNA**, then press the **ENTER** button.
3. Press the Red button, then press the ▲ or ▼ button to select the corresponding USB Memory Device (i.e. if connected through a hub). Press the **ENTER** button.
   - This function differs depending on the USB Memory Device/ DLNA device connected to TV.
   - The selected USB device name appears at the bottom left of the screen.
4. Press the ◄ or ► button to select an icon (Photo, Music, Movie, Setup), then press the **ENTER** button. To exit **WISELINK Pro** mode, press the **W.LINK** button on the remote control.
   - You can enjoy game movies. (Not support game program)



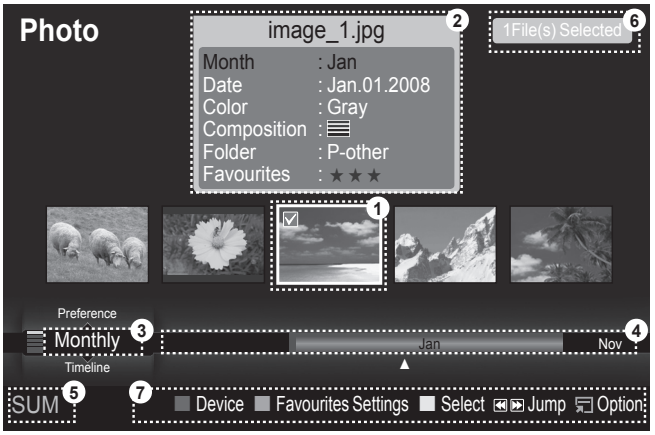
Removing a USB Memory Device Safely

You can remove the device safely from the TV.

1. Press the **TOOLS** button in the WISELINK Pro file list screen, or while a SlideShow or music file is being played.
2. Press the ▲ or ▼ button to select **Remove Safely**, then press the **ENTER** button.
3. Remove the USB device from the TV.



Screen Display



1. Currently selected file: The currently selected file is highlighted. Photo and movie files are displayed as thumbnail images.
2. Information Window: Shows information about the currently selected file. There is a separate information window for photo and movie files only. For music files, the file information is also displayed in the location where the file is displayed.
3. Current Sort Standard: This field shows the current standard for sorting files. Press the ▲ or ▼ button to change the standard for sorting files.
4. View Groups: Shows the sorting groups. The sorting group including the currently selected photo is highlighted.
5. Current Device: Shows the currently selected device name. Press the Red button to select a device.
6. Item Selection Information: Shows the number of photos that are selected by pressing the Yellow button.
7. Help Items

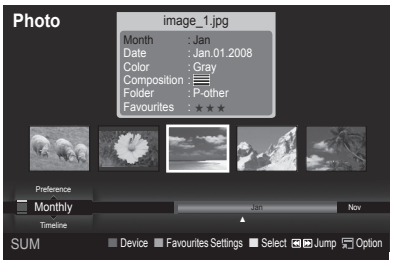
- **Red** (Device) button: Selects a connected device.
- **Green** (Favourites Settings) button: Changes the Favourites Settings for the selected file. Press this button repeatedly until the desired value appears.
- **Yellow** (Select) button: Selects file from the file list. Selected files are marked with a symbol ✓. Press the yellow button again to cancel a file selection.
- ◀◀ ▶▶ (Jump) button: Jumps to the previous sorting group/Jumps to the next sorting group.
- **TOOLS** (Option) button: Displays the option menus. (The option menu changes according to the current status.)

Using the Remote Control Button in WISELINK Pro Menu

Button	Operations
▲/▼/◀/▶ (Wheel)	Move the cursor and select an item.
ENTER	Select the currently selected item. While playing a slide show, movie, or music file: - Pressing the **ENTER** button during play pauses the play. - Pressing the **ENTER** button during pause resumes the play.
▶ ⏸	Play or pause the Slide Show or Music file.
RETURN	Return to the previous menu.
TOOLS	Run various functions from the Photo, Music and Movie menus.
■	Stop the current slide show, Music or Movie file.
◀◀ / ▶▶	Jump to previous group/Jump to next group.
INFO	Show file information.
W.LINK	Exit WISELINK Pro mode.
P ∧/∨, **PRE-CH**	Stop WISELINK Pro mode and Returns to TV mode.
EXIT	Stop the current function and return to the WISELINK Pro main menu.

Using and Sorting Photo List

You can sort photos in the Photo List by a particular standard.

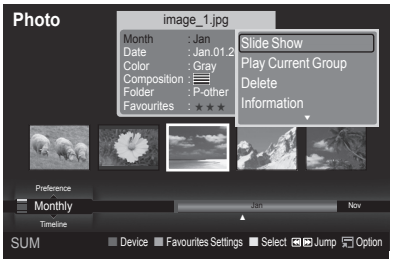


1. Press the ▲ or ▼ button to select a sorting standard in the Photo list.
   - The photos are sorted according to the newly selected sorting standard.
   - To move to the previous/next group, press the ◄◄ (REW) or ►► (FF) button.
2. Press the ► (Play)/**ENTER** button to start the Slide Show in the order selected by the user.
   - The information of a photo file is automatically set.
   - The **Color** and **Composition** information extracted from a photo file may be different from the user's expectations.
   - Photo information is automatically set. You can change the **Color**, **Composition**, and **Favourites**.
   - Photos for which information cannot be displayed are set as **Unclassified**.
   - PTP does not support folder sort mode.

Sorting Standard for the Photo List

- **Monthly**
  It sorts and shows photos in the file by month. It sorts only by month (from January to December) regardless of year.
- **Timeline**
  It sorts and shows photos by date. It sorts by year and month from the earliest photo.
- **Color**
  It sorts photos by color. You can change the photo color information.
  - **Color** options: Red, Yellow, Green, Blue, Magenta, Black, Gray, Unclassified.
- **Composition**
  It sorts photos by composition. You can change the compositional information of photos.
  - **Composition** options: (horizontal), (vertical), (object), (perspective), (pattern), Unclassified.
- **Folder**
  It sorts photos by folder. If there are many folders in USB, the photos files are shown in order in each folder. The photo file in the Root folder is shown first and the others are shown in alphabetical order by name.
- **Preference**
  It Sorts photos by preference (Favourites). You can change the photo preferences.
  - **Changing the Favourites Settings.**
    Select the desired photo in the Photo list, then press the Green button repeatedly until the desired setting appears.
  - **Favourites** options: ★★★, ★★★, ★★★, ★★★

Photo List Option Menu

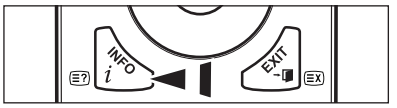


- **Slide Show**
  Using this menu, you can play a SlideShow using the photo files on the USB memory device.
- **Play Current Group**
  Using this menu, you can play a SlideShow using only the photo files in the currently selected sorting group.
- **Delete**
  Using this menu, you can delete the selected photo files.
- **Change Group**
  You can change the **Color** and **Composition** information of photo files.
  - The group information of the current file is updated and the file is moved to the new group.
  - To change the information of multiple files, select the files you want by pressing the yellow button.

■ **Information**

The photo file information including the name, the size, the resolution, the date modified and the path is displayed.

- You can view the information of photo files during a SlideShow using the same procedures.
- Alternatively, select a photo from the photo list and press the **INFO** button to view the information.



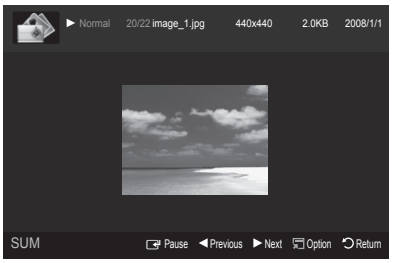
■ **Remove Safely**

You can remove the device safely from the TV.

Viewing a Photo or Slide Show

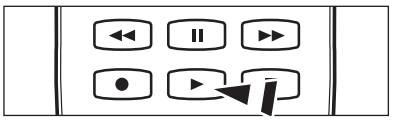
Viewing a Slide Show

1. Press the ◄ or ► button to select the desired photo in the Photo list.
2. Press the **TOOLS** button.
3. Press the ▲ or ▼ button to select **Slide Show**, then press the **ENTER** button.
   - All files in the photo list will be used for the Slide Show.



- During the slide show, files are displayed in order from the currently shown file.
- The Slide Show progresses in the order sorted in the Photo list.
- Music files can be automatically played during the Slide Show if the **Background Music** is set to **On**. (Refer to page 37).

- While a photo list is displayed, press the ► (Play)/**ENTER** button on the remote control to start slide show.



SlideShow Control Buttons

ENTER	Play/Pauses the Slide Show.	■	Exit Slide Show and return to the photo list.
►	Play the Slide Show.	**TOOLS**	Run various functions from the Photo menus.
❚❚	Pause the Slide Show.	◄◄/►►	Change the SlideShow playing speed.

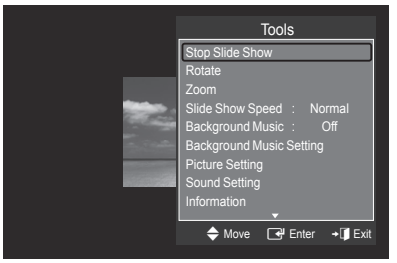
Playing current group

1. Press the ▲ or ▼ button to select a sorting standard. (**Monthly, Timeline, Color, Composition, Folder, Preference**)
2. Press the ◄◄ (REW) or ►► (FF) button to select the desired group.
3. Press the **TOOLS** button.
4. Press the ▲ or ▼ button to select **Play Current Group**, then press the **ENTER** button.
   - Only the photos in the sorting group including the selected files will be used for the Slide Show.

To perform a SlideShow with only the selected files

1. Press the ◄ or ► button to select the desired photo in the Photo list.
2. Press the yellow button. Repeat the above operation to select multiple photos.
   - The ✓ mark appears to the left of the selected photo.
   - If you select one file, the SlideShow will not be performed.
   - To deselect all selected files, press the **TOOLS** button and select **Deselect All**.
3. Press the ► (Play)/**ENTER** button.
   - The selected files will be used for the Slide Show.

Slide Show Option Menu



- **Stop Slide Show / Start Slide Show**
  You can start or stop a SlideShow.

- **Rotate**
  You can rotate photos saved on a USB memory device.
  - Whenever you press the ◄ button, it rotates by 270˚, 180˚, 90˚, and 0˚.
  - Whenever you press the ► button, it rotates by 90˚, 180˚, 270˚, and 0˚.

- **Zoom**
  You can magnify photos saved on a USB memory device. (x1 → x2 → x4)
  - To move the enlarged photo image, press the **ENTER** button, then press the ▲/▼/◄/► buttons. Note that when the enlarged picture is smaller than the original screen size, the location change function doesn't work.
  - The enlarged file is not saved.
  - If you have select **Rotate**, the **Zoom** deactivated.

- **Slide Show Speed**
  You can select the slide show speed.
  - You can select the Slide Show speed only during a slide show.
  - You can also change the speed of the Slide Show by pressing the ◄◄ (REW) or ►► (FF) button during the Slide Show.

- **Background Music → On/Off**
  If you set **Background Music** to On, the background music will be played when viewing photos one by one or in a Slide Show.
  If you set **Background Music** to On, a screen appears immediately where you can set the Background Music.
  To use this feature, there must be music and photo files stored on the USB device.

- **Background Music Setting**
  You can select background music when watching a SlideShow.
  - If you turn off the **Background Music**, even if the **Background Music Settings** have been set up, the background music will not be played.
  - Loading music files is needed to change BGM mode. Play music files in music category to load.
  - **BGM Mode → Mood/Selected File/Shuffle**
  - **BGM Mood → Energetic/Rhythmical/Sad/Exciting/Calm**
    - If you set **BGM Mode** to **Mood**, you can select a mood.
    - You cannot select a mood not part of the music files on the USB memory device.
  - Select Music File
    - If you set **BGM Mode** to **Selected File**, you can select a music file.

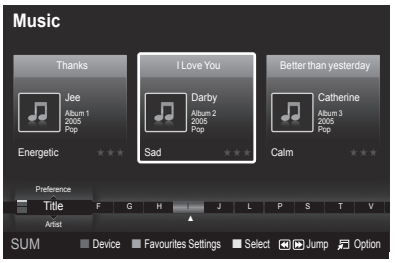
- **Picture Setting / Sound Setting**
  Refer to page 43.

- **Information**
  The photo file information is displayed.

- **Remove Safely**
  You can remove the device safely from the TV.

Using and Sorting the Music List

You can sort music files in the Music List by a particular standard.



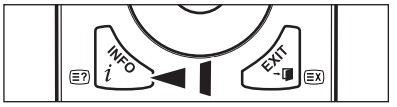
1. Press the ▲ or ▼ button to select a sorting standard in the Music list.
   - Music files are sorted according to the newly selected sorting standard.
   - To move to the previous/next group, press the ◄◄ (REW) or ►► (FF) button.
2. Press the **ENTER** button to start playing music in the order selected by the user.
   - The information of the music files is automatically set.
   - The **Mood** information extracted from a music file may differ from the expectations of the user.
   - Music information is automatically set. You can change the **Mood** and **Favourites**.
   - Music files for which information cannot be displayed are set to **Unclassified**.
   - If there is no title information for a music file, the filename is displayed.
   - If no information is available for the Genre, Artist, Album, or Year, the corresponding item is displayed as blank.

Sorting Standard for the Music List

- **Title**: It sorts the Music titles in alphabetical order, and shows the music file.
- **Artist**: It sorts the music file by artist in alphabetical order.
- **Mood**: It sorts music files by the mood. You can change the music mood information.
  - **Mood** options: Energetic, Rhythmical, Sad, Exciting, Calm, Unclassified
- **Genre**: It sorts music files by the genre.
- **Folder**: It sorts music files by the folder. If there are many folders in USB, the files are shown in order in each folder. The music file in the Root folder is shown first and the others are shown in alphabetical order by name.
- **Preference**: It sorts music files by preference (Favourites). You can change the music files preferences.
  - Changing the Favourites Settings
    Select the desired music file in the Music list, then press the Green button repeatedly until the desired setting appears.
  - To change the information of multiple files, select files by pressing the yellow button.
  - **Favourites** options: ★★★, ★★★, ★★★, ★★★

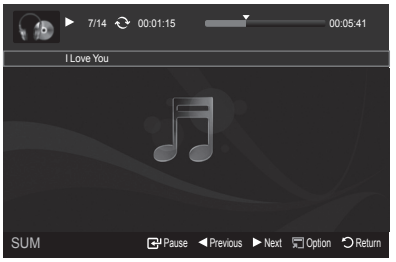
Music List Option Menu

- **Play Current Group**: Using this menu, you can only play music files in the currently selected sorting group.
- **Delete**: Using this menu, you can delete the selected music files.
- **Change Group**: You can change the mood information of music files. The group information of the current file is updated and the file is moved to the new group.
  - To change the information of multiple files, select files by pressing the yellow button.
- **Information**: The music file information including the name, the size, the date modified and the path is displayed.
  - You can view the information of music files during a SlideShow using the same procedures.
  - Alternatively, select a music file from the music list and press the **INFO** button to view the information.
- **Remove Safely**: You can remove the device safely from the TV.



Playing a Music

Playing a music file



1. Pressing the ◄ or ► button to select a music file to be played.
2. Press the ▶ (Play)/**ENTER** button.
   - This menu only shows files with the MP3 file extension. Files with other file extensions are not displayed, even if they are saved on the same USB device.
   - ◄◄ (REW) or ►► (FF) buttons do not function during play.
   - The selected file is displayed at the top with its playing time.
   - To adjust the music volume, press the volume button on the remote control. To mute the sound, press the **MUTE** button on the remote control.
   - The playing duration of a music file may be displayed as '00:00:00' if its playing time information is not found at the start of the file.

Music Play Control Buttons

ENTER	Play/Pauses the music file.	■	Exit play mode and return to the music list.
▶	Play the music file	**TOOLS**	Run various functions from the Music menus.
❚❚	Pause the music file		

Music function information icon

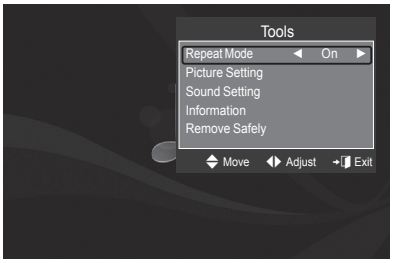
	When all music files in the folder (or the selected file) are repeated. **Repeat Mode** is **On**.
	When all music files in the folder (or the selected file) are played once. **Repeat Mode** is **Off**.

Playing the music group

1. Press the ▲ or ▼ button to select a sorting standard.
   (**Title, Artist, Mood, Genre, Folder, Preference**)
2. Press the ◄◄ (REW) or ►► (FF) button to select the desired group.
3. Press the **TOOLS** button.
4. Press the ▲ or ▼ button to select **Play Current Group**, then press the **ENTER** button.
   - The music files in the sorting group including the selected file are played.

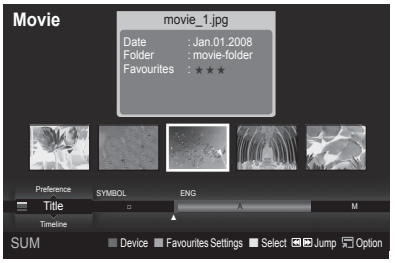
Playing the selected music files

1. Press the ◄ or ► button to select the desired music file in the music list.
2. Press the yellow button. Repeat the above operation to select multiple music files.
   - The ✓ mark appears to the left of the selected music file.
3.



Using and Sorting the Movie List

You can sort movies in the Movie List by a particular standard.

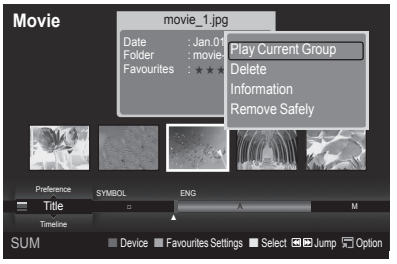


1. Press the ▲ or ▼ button to select a sorting standard in the Movie list.
   - The movie files are sorted according to the newly selected sorting standard.
   - To move to the previous/next group, press the ◄◄ (REW) or ►► (FF) button.
   - Movie doesn't support subtitles.
     (for example, not support smi, srt and sub files, etc and not support subtitles included in movie files)
2. Press the ► (Play)/**ENTER** button to play the movie in the order selected by the user.
   - The movies are sorted according to the newly selected sorting standard.
   - Movie information is automatically set. You can change the **Favorites**.

Sorting Standard for the Movie List

- **Title**
  It sorts and displays the Movie titles in symbol/Number/alphabet/special order.
- **Timeline**
  It sorts and shows movies by date. It sorts by year and month from the earliest movie.
- **Folder**
  If there are many folders in USB, the movies files are shown in order in each folder. The movie file in the Root folder is shown first and the others are shown in alphabetical order by name.
- **Preference**
  It sorts movies by preference. (favourites) You can change the movie preferences.
  - **Changing the Favourites Settings**
    Select the desired movie file in the movie list, then press the Green button repeatedly until the desired setting appears.
  - **Favourites** options: ★★★, ★★★, ★★★, ★★★

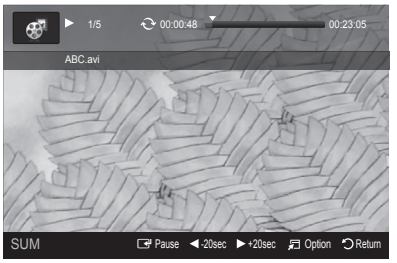
Movie List Option Menu



- **Play Current Group**
  Using this menu, you can only play movie files in the currently selected sorting group.
- **Delete**
  Using this menu, you can delete the selected movie files.
- **Information**
  The movie file information including the order of the file in the current directory, the name, the size, the date modified and the path is displayed.
  - Alternatively, select a movie file from the movie list and press the **INFO** button to view the information.
- **Remove Safely**
  You can remove the device safely from the TV.

Playing a Movie File

Playing a movie file



1. Pressing the ◄ or ► button to select a movie to be played.
2. Press the ▶ (Play)/**ENTER** button.
   - The selected file is played.
   - The selected file is displayed at the top with its playing time.
   - The playing duration of a movie file may be displayed as '00:00:00' if its playing time information is not found at the start of the file.

Supported Video Formats

Video Codec			
File Extention	**Container**	**Video Decoder**	**Max Resolution Sti**
*.avi	AVI	XviD	720x576
		MPEG1	720x576
		MPEG2	720x576
		H.264 BP	1920x1088
		H.264 BP	1920x1088
		H.264 HP	1920x1088
		MPEG-4 SP	720x576
		MPEG-4 ASP	720x576
*.mp4	MP4	H.264 BP	1920x1088
		H.264 MP	1920x1088
		H.264 HP	1920x1088
		MPEG-4 SP	720x576
		MPEG-4 ASP	720x576
*.mpg	PS	MPEG1 (Program Stream)	1920x1088
*.mpeg		MPEG2 (Program Stream)	1920x1088
*.vro		MPEG2 VOB	1920x1088
*.vob		MPEG2 VRO	1920x1088
others (ts)	TS	MPEG2 (Transport Stream)	1920x1088
		H.264 (Transport Stream)	1920x1088

Video Play Control Buttons

ENTER	Play/Pauses the movie file
▶	Play the movie file
❚❚	Pause the movie file
■	Exit play mode and return to the movie list.
TOOLS	Run various functions from the movie menus.
◄/►	Skip forwards or backwards through the movie file in 20 second intervals.
▲/▼	Play the next file or the previous file.

Movie function information icon

	When all movie files in the folder (or the selected file) are repeated. **Repeat Mode** is **On**.
	When all movie files in the folder (or the selected file) are played once. **Repeat Mode** is **Off**.

Playing the movie group

1. Press the ▲ or ▼ button to select a sorting standard. (**Title**, **Timeline**, **Folder**, **Preference**)
2. Press the ◀◀ (REW) or ▶▶ (FF) button to select the desired group.
3. Press the **TOOLS** button.
4. Press the ▲ or ▼ button to select **Play Current Group**, then press the **ENTER** button.

Playing the selected movie files

1. Press the ◄ or ► button to select the desired movie file in the movie list.
2. Press the yellow button. Repeat the above operation to select multiple movie files.
   - The ✓ mark appears to the left of the selected movie file.
3. Press the ▶ (Play)/**ENTER** button.
   - Only the selected file is played.

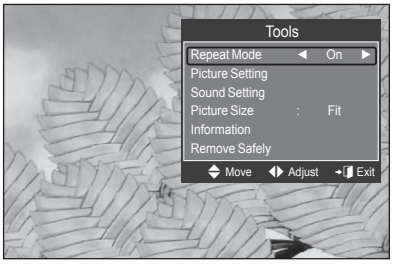
Playing movie continuously

If you exit playing movie, playing it continuously later is possible.

With **Play continuously** function, you can watch movie without watching again from beginning or bothering searching.

1. Select movie file you want to **Play continuously** by pressing ◄ or ► button from the Movie List.
2. Press the ▶ (Play)/**ENTER** button.
3. Select play continuously by pressing Blue button.
   - Movie will begin to play from where it was stopped being played.
   - If **Cont. movie play help** function was set **On**, a pop-up message will appear when you play movie file you want to **Play continuously**. (Refer to page 43)
4. To exit **WISELINK Pro** mode, press the **W.LINK** button on the remote control.

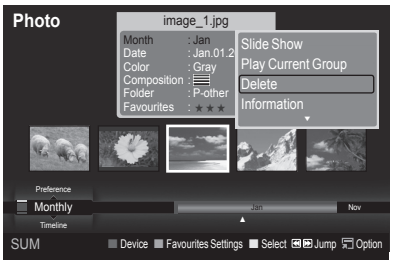
Movie Play Option Menu



- **Repeat Mode**
  You can play the movie repeatedly.
- **Picture Setting / Sound Setting**
  Refer to page 43.
- **Picture Size**
  - **Fit**: Play video at the TV screen size.
  - **Original**: Play video at the original size.
- **Information**
  The movie file information is displayed.
- **Remove Safely**
  You can remove the device safely from the TV.

Deleting the Photo/Music/Movie File

1. Press the ◄ or ► button to select the desired file in the Photo/Music/Movie list.
   - To delete multiple files, select files by pressing the yellow button.
2. Press the **TOOLS** button.
3. Press the ▲ or ▼ button to select **Delete** (or **Delete Selected File**), then press the **ENTER** button.
4. Press the ◄ or ► button to select **OK**, then press the **ENTER** button.
   - The file is deleted.
   - When a read-only file is deleted, the **This File is read-only file. Delete it?** message appear.
   - Read-only files among multiple files cannot be deleted.
   - If you select **Cancel**, the deletion is cancelled.
   - While removing files, don't remove the USB memory device.
   - You cannot remove the PTP-connected digital camera picture files.
   - You cannot recover deleted photo/music/movie files.



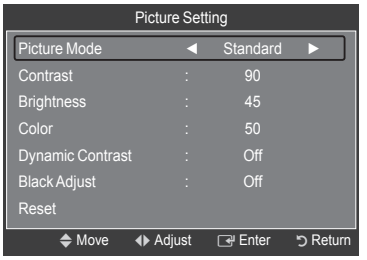
Picture/Music Settings Using WISELINK Pro

When watching a SlideShow or listening to music using WISELINK Pro, you can set the picture and sound.

Picture Setting

1. Press the **TOOLS** button during a Slide Show or while music is playing.
2. Press the ▲ or ▼ button to select **Picture Setting**.
3. Press the ◄ or ► button to select the **Picture Mode** (**Dynamic, Standard,** or **Movie**).
4. Press the ▲ or ▼ button to move to an item. (**Contrast, Brightness, Color, Dynamic Contrast, Black Adjust,** or **Reset**)
   Select **Reset** to initialize the picture settings.
5. Press the ◄ or ► button to adjust the settings.

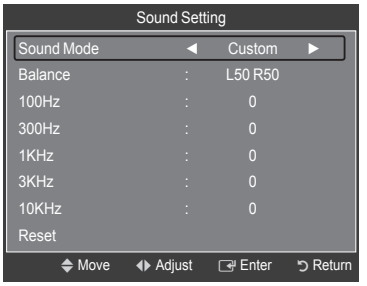
For more information on the picture settings, refer to pages 15~18.



Sound Setting

1. Press the **TOOLS** button during a Slide Show or while music is playing.
2. Press the ▲ or ▼ button to select **Sound Setting**.
3. Press the ◄ o r ► button to select the **Sound Mode**. (**Standard, Music, Movie, Speech,** or **Custom**)
4. Press the ▲ or ▼ button to move to an item.
   Select **Reset** to initialize the sound settings.
5. Press the ◄ or ► button to adjust the settings.

For more information on the sound settings, refer to page 21~22.

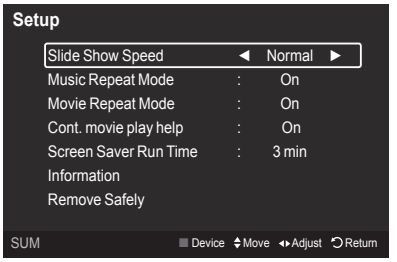


Using the Setup Menu

Setup displays the user settings of the **WISELINK Pro** menu.

1. Press the **W.LINK** button on the remote control to display the **WISELINK Pro** menu.
2. Press the ◄ or ► button to select **Setup**, then press the **ENTER** button.
3. Press the ▲ or ▼ button to select the desired option.
4. Press the ◄ or ► button to select the option, then press the **ENTER** button.

To exit **WISELINK Pro** mode, press the **W.LINK** button on the remote control.

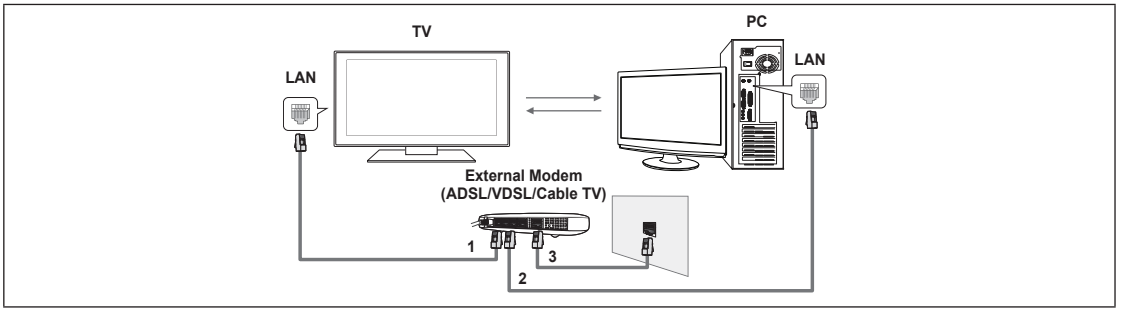


- **Slide Show Speed → Fast/Slow/Normal**
  Select to control the slide show speed.
- **Music Repeat Mode → On/Off**
  Select to repeatedly play music files.
- **Movie Repeat Mode → On/Off**
  Select to repeatedly play movie files.
- **Cont. movie play help → On/Off**
  Select to display the help pop-up message for continuous movie playback.
- **Screen Saver Run Time → 1 min/3 min/5 min**
  Select to set the waiting time before the screen saver appears.
- **Information**
  Select to viewing the information of the connected device.
- **Remove Safely**
  You can remove the device safely from the TV.

Setting the DLNA Network

DLNA allows you to watch videos and pictures saved on your PC on your TV through a network connection in Wiselink Pro mode. This removes the need to copy them to a USB storage device and then connect the device to your TV. To use DLNA, the TV must be connected to the network and the DLNA application must be installed on your PC.

Network Connections Diagram



1. Connect the [LAN] port on the rear panel of the TV to the external modem with a LAN Cable.
2. Connect the PC to which the “DLNA PC Share Manager” programme will be installed and the external modem using a LAN cable.
3. Connect the LAN port on the wall and the external modem with a Modem Cable.

Connecting to the Network

1. When connecting to the network is complete, set up the network on the TV.
   - A Wireless Internet connection does not support DLNA.
   - Three parts(subnet address) before the TV and PC IP addresses should be same. The last part (host address) should be changed. (e.g. IP Address: 123.456.789.**)
2. Run a **Network Test** to check the network settings.

Installing the DLNA Application

To play content on the PC on the TV, you have to first install the application.

- **System Requirements**

1. Insert the Programme CD supplied with this TV into your PC.
2. 20MB of free hard disk space is needed for the programme installation.
   - If you share files, up to 20MB of hard disk drive space is required for each 100 files.
   - If you cancel file sharing, the hard disk drive space used for the thumbnail information is also freed.

- **Supported Formats**

1. Image: JPEG (jpg, jpeg)
2. Audio: MP3 (mp3)
3. Video: MPEG1(mpg, mpeg), MPEG2 PS/TS(mpg, mpeg, trp, ts, tp), divx(mpg, mpeg, avi), MPEG4/H.264 (mpg, mpeg)

Install the application

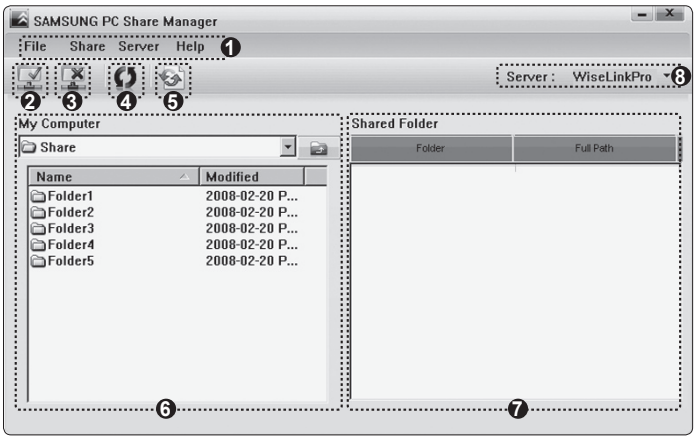
1. Run the Setup.exe file on the Programme CD supplied with the product.
   Alternatively, you can download the file from www.samsung.com.
2. Install the SAMSUNG PC Share Manager as shown in the figures below.

SAMSUNG PC Share Manager - InstallShield Wizard
Choose Setup Language
Select the language for the installation from the choices below.
Bulgarian
Croatian
Czech
Danish
Dutch
English
Finnish
French (Standard)
German
Greek
Hungarian
Italian
Norwegian
Polish
< Back
Next >
Cancel
SAMSUNG PC Share Manager - InstallShield Wizard
Welcome to the InstallShield Wizard for SAMSUNG PC Share Manager
The InstallShield Wizard will install SAMSUNG PC Share Manager on your computer. To continue, click Next.
< Back
Next >
Cancel
SAMSUNG PC Share Manager - InstallShield Wizard
Choose Destination Location
Select folder where setup will install files.
Install SAMSUNG PC Share Manager to:
C:\...\SAMSUNG\SAMSUNG PC Share Manager
Change...
< Back
Next >
Cancel
SAMSUNG PC Share Manager - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
< Back
Install
Cancel
SAMSUNG PC Share Manager - InstallShield Wizard
Setup Status
SAMSUNG PC Share Manager is configuring your new software installation.
Installing
Cancel
SAMSUNG PC Share Manager - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed SAMSUNG PC Share Manager. Click Finish to exit the wizard.
< Back
Finish
Cancel

3. When the installation is complete, the PC Share Manager icon appears on your Desktop.
   Double-click the icon to run the programme.

Using the DLNA Application

The Programme Screen Layout

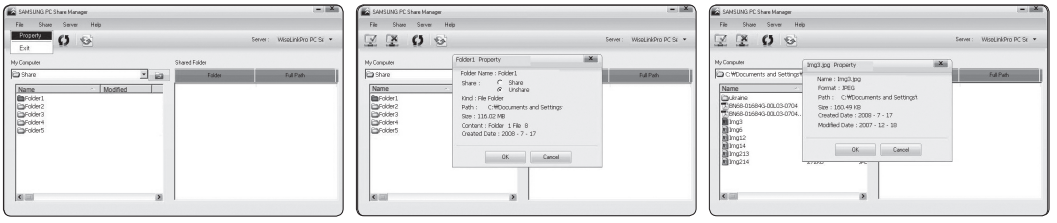


1. Menus: The following application menus are provided : **File, Share, Server,** and **Help**.
2. Click to share the selected PC server folder.
3. Click to cancel sharing.
4. Click to refresh the PC folder and files.
5. Click to synchronize the share status.
6. The folders and files of the PC to be shared are listed.
7. Folders shared by the user are listed.
8. PC server name shown on the device list of the WISELINK Pro: Click to change the name.

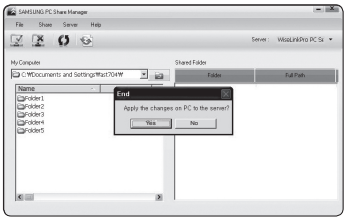
❑ File

- **Property**: Shows information on the selected file or folder.
  - **Method 1**: Select a file or folder and select the **File** menu and then select the **Property** sub-menu.
  - **Method 2**: Select a file or folder, right-click over the selected file or folder and then select **Property** from the pop-up menu.

<Method 1> **<Method 2>**



- **Exit**: Exits the DLNA application.
  If you select **Exit** without applying the changes after changing the shared status, a message will appear asking if you want to apply the changed settings to the PC. Select **Yes** to apply the changes and exit the application.



❑ Share

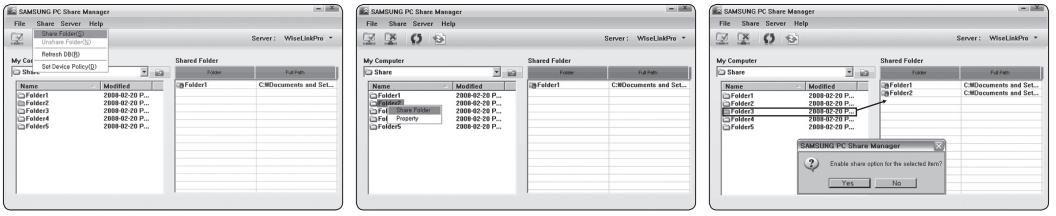
■ Sharing a Folder

You can share a folder from your PC to the TV. The maximum number of folders that can be shared is 32.

✎ Your PC will operate as a server to the TV.

- **Method 1**: Select a folder in **My Computer**, select the **Share** menu and then select the **Share Folder** sub-menu.
- **Method 2**: Select a folder in **My Computer**, right-click over the selected folder and then select **Share Folder** from the pop-up menu.
- **Method 3**: Locate the mouse pointer over a folder in the **My Computer** folder list in the left pane and drag&drop the folder into the Shared Folders pane. If a message appears asking you to confirm the shared folder, select **Yes**.

<Method 1> **<Method 2>** **<Method 3>**

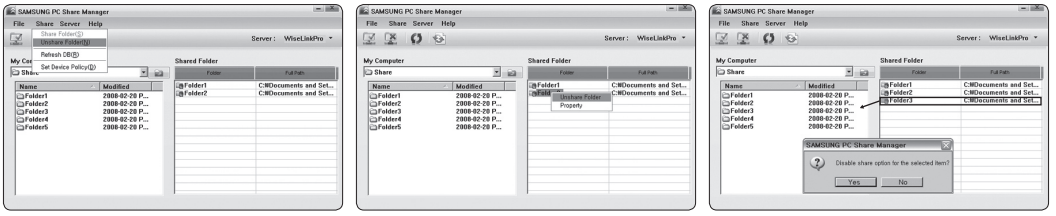


■ Cancelling a Shared Folder

You can cancel a shared folder on your PC. Select a folder from the **Shared Folder** pane and select **Unshare Folder**.

- **Method 1**: Select a folder from the **Shared Folder** pane, select the **Share** menu and then select **Unshare Folder**.
- **Method 2**: Select a folder from the **Shared Folder** pane, right-click over the selected folder and then select **Unshare Folder** from the pop-up menu.
- **Method 3**: Locate the mouse pointer over a folder in the **Shared Folder** pane and drag&drop the folder into the **My Computer** pane. If a message appears asking you to confirm the cancelation, select **Yes**.

<Method 1> **<Method 2>** **<Method 3>**



■ Applying the Current Settings

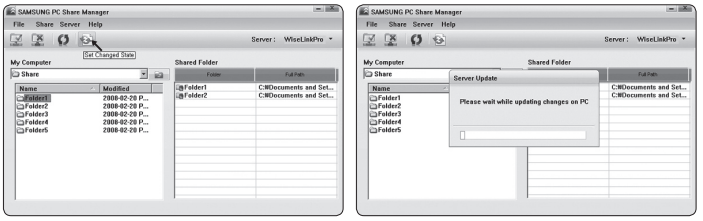
Perform this when synchronization is necessary due to a new shared folder or canceling a shared folder. The **Set Changed State** menu applies changes to shared folders to the data saved with the PC share programme.

Since applying changes to the internal data is a time-consuming process, this function enables users to apply changes to the data only when required.

Until the **Set Changed State** menu is selected, the changed state of the shared folder is not applied to the server.

Changes to the shared folders are not applied to your PC until you select the **Set Changed State** menu.

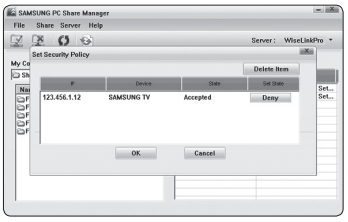
- **Method 1**: Select the **Share** menu and select the **Refresh DB** sub-menu.
- **Method 2**: Click the **Set Changed State** icon.



Setting the Access Permission

To enable the TV to find your PC, the TV must be set to **Set Device Policy** in the Access Permission Settings window. In addition, the PC server and the TV must be on the same subnet.

- Method: Select the **Share** menu and select **Set Device Policy**. Rejected items are represented in gray. You can change the access permissions by using the Allow **Accept / Deny** button. To delete an item, select the item and select **Delete Item**.



❑ Server

Server

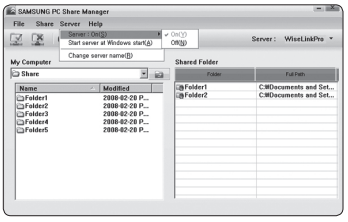
You can run or stop using your PC as a server.

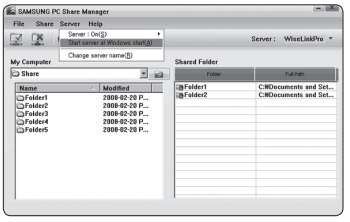
Start Server at Windows start

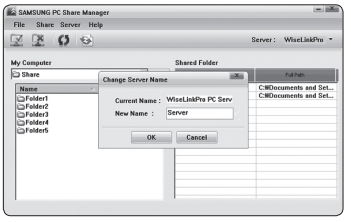
You can determine whether to start the PC server automatically when Windows starts.

Change server name

You can rename the PC server. Enter a new name and click **OK**. The new name will appear at the top right of the window and will appear on the TV.



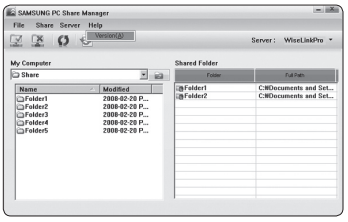




❑ Help

Version

The programme version information message box appears.



Using the DLNA Function

Using the DLNA Menu

DLNA (Digital Living Network Alliance) enables content saved on a DLNA server (usually your PC) connected to your TV or over a network to be played.

Wiselink Pro enables playing content saved on a USB memory device connected to the TV, while DLNA enables playing content saved on a DLNA server (your PC) connected to your TV or over the network. The procedures to use the content are the same as those for WISELINK Pro.

If you install the PC share manager programme supplied with the TV onto a PC, you can have the PC perform the role of a DLNA server over the network.

1. Press the **W.LINK** button on the remote control to display the **DLNA** menu.
2. Press the ◄ or ►button to select an icon (Photo, Music, Movie, Setup), then press the **ENTER** button.

   To exit **DLNA** mode, press the **W.LINK** button on the remote control.

❑ Photo

- **Photo List option menu**
  Sorting Photo List/Viewing the Information/Rotating the Photo file/Viewing a Slide Show
- **During a Slide Show option menu**
  Play & Pause/Slide Show Speed/Zoom/Rotate

❑ Music

- **Music List option menu**
  Sorting Music List/Viewing the Information/Playing a music file
- **Music Play Option Menu**
  Play & Pause/Repeat Mode

❑ Movie

- **Movie List option menu**
  Sorting Movie List/Viewing the Information/Playing a Movie file
- **Movie Play Option Menu**
  Play & Pause/Repeat Mode

❑ Setup

Slide Show Speed/Music Repeat Mode/Movie Repeat Mode/Screen Saver Run Time/Information

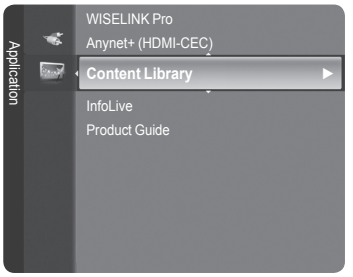
DLNA does not support the following functions.
- The Background Music and Background Music Setting functions.
- Sorting files by preference in the Photo, Music, and Movie folders.
- The Change Group Info function.
- The Delete function.
- The Safe Remove function.
- The ◄◄ (REW)/►► (FF) button functions while a movie is playing.

The Skip (◄/► button) or Pause function may not work while a movie is playing for the DLNA of other manufacturers, depending on the corresponding content information.

The playing time may not be displayed while a movie is playing.

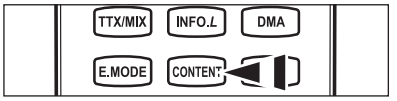
Activating the Content Library

The **Content Library** enables you to view or play the built-in contents on the TV or stored on your USB device. The Delete, Move and Update functions will not work with the built-in content on the TV.

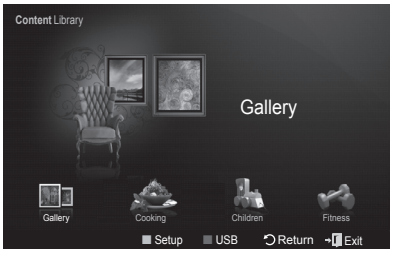


1. Press the **MENU** button. Press the ▲ or ▼ button to select **Application**, then press the **ENTER** button.
2. Press the ▲ or ▼ button to select **Content Library**, then press the **ENTER** button.
   The **Content Library** main menu is displayed.

   Press the **CONTENT** button on the remote control to display the **Content Library** main menu.



3. Press the ◄ or ► button to select an icon (**Gallery, Cooking, Children, Fitness**), then press the **ENTER** button.
   The selected item will be run.
   Refer to the explanation for the button in the display when the user uses the button while content is running.



Using the Remote Control Button in Content Library Menu

Button	Operations
▲/▼/◄/► (Wheel)	Move the cursor and select an item.
ENTER	Select the currently selected item.
RETURN	Return to the previous menu.
EXIT	Stop the current function and return to the **Content Library** main menu.
P /, **PRE-CH**	Stop Content Library mode and Returns to TV mode.
(colour button)	Button that provide functions are described on the corresponding page.
/	You can control the volume of the played content.
CONTENT	Exit Content Library mode.

If you press the Volume or **MUTE** button, no OSD is displayed, but the function operates accordingly.

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Using the Content Library

❑ Gallery

- **Art/Relaxation/Party**: This function plays a SlideShow with high resolution images and background music and produces various atmospheres. Using the Gallery function of the TV, you can change your home atmosphere.
  - Press the yellow button to playback all imageries.
  - There is default music for each for the **Art**, **Relaxation**, and **Party** options.
  - Press **INFO** button to see the credit and detail information in English for the imagery. Press **INFO** button again or press ► button for the credit information to go away (currently, the credit supports English only).
  - The copyrights of the **Gallery** contents and all issues related to them are reserved by Gallery Player, Inc.
  - For additional **Gallery** contents, check for information through www.samsung.com. Please refer to the **Using Additional Content Using External USB Memory Storage** section to see how to play additional imagery.

❑ Cooking

- **Starters/Main Courses/Desserts**: You can view various recipes that you can then easily follow step by step. Enjoy these contents which give you great ideas for meals.
  - The recipes introduced in the **Cooking** contents on the Samsung TV are based on recipes published by Anness Publishing.
  - The copyrights of the **Cooking** contents and all issues related to them are reserved by Practical Pictures.

❑ Children

- **Story/Song/Play**: This is educational and interactive content that children can watch repeatedly. Enjoy existing stories, songs and plays with the Boowa and Kwala characters.
  - The copyrights of the **Children** contents and issues related to them are reserved by UpToTen.

❑ Fitness

- **Basic Stretches/Massage**: This is beneficial health management content that provides stretching and massage exercises that can be enjoyed by the whole family.
  - This is beneficial health management content that provides stretching and massage exercises that can be enjoyed by the whole family. The **Basic Stretches** contents for the Samsung TV are based on the book Stretching by Suzanne Martin which is published by DK and the **Massage** contents are based on the books published by Anness Publishing.
  - The copyrights to **Basic Stretches** are reserved by the DK Publishing Company. The copyrights to the **Massage** content are reserved by Practical Pictures. All issues related to copyrights are reserved by the corresponding company.

Using the Remote Control Button in Fitness menu

Button	Operations
◄/► (Wheel)	View to previous step/View to next step
ENTER↵	Play or pause (in Basic and Advanced Stretches)

❑ Screen Saver Run Time

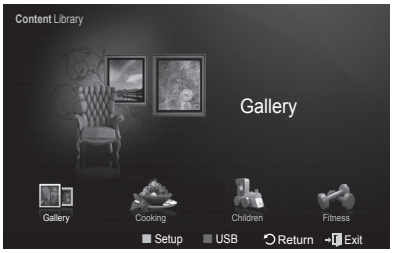
Select to set the waiting time before the screen saver appears.
Press the yellow button to select **Setup** in the **Content Library** main menu.

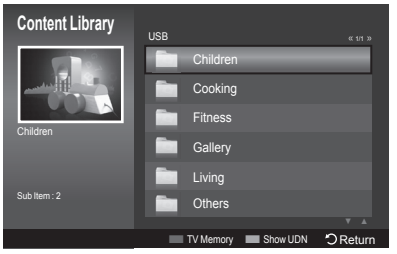
Using Additional Content Using External USB Memory Storage

You can download contents onto a USB memory device and play them on your TV. (The contents on the external USB device are played directly without being copied to the built-in Flash memory of the TV.)

Playing and Exiting New Content

1. Press the Red button in the **Content Library** main menu.
   - The USB Browser main screen is displayed.
   - A list of files saved on the USB device is displayed.
2. Press the ▲ or ▼ button to move to the file (or folder) you want to play. Press the **ENTER** button.
   - The selected content is played.
   - The use of contents is the same as in using the TV memory contents.
   - To return to the USB browser main screen, press the **EXIT** button.
   - To exit **Content Library** mode, press the **P**∨/∧ button on the remote control.
   - **Content Library** only supports USB Mass Storage Class devices (MSC). MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers (Both USB HDD and HUB are not supported.)





Downloading New Contents

New content other than the built-in contents will be provided via the Samsung.com website with or without charge.

- **Downloading Content**
  1. Visit the www.samsung.com website and open the Content Library page.
  2. Enter the product number (UDN, Unique Device Number) when it is asked.
  3. Select a content item in the Contents Download page.
  4. Download the contents onto the USB memory device.
     - **Content Library** only supports USB Mass Storage Class devices (MSC). MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers (Both USB HDD and HUB are not supported.)
  5. Go to **Content Library** main menu by pressing **CONTENT** button or choosing **Content Library** (Menu → Application → Content Library)
  6. Plug the USB memory into USB port on the side of the TV.

- **Finding a product number (Unique Device Number, UDN)**
  1. Insert the USB memory into the USB port on the side of the TV.
  2. In the USB Browser main screen, press the Green button (Show UDN).
  3. The 18-digit number on the screen is the product code.

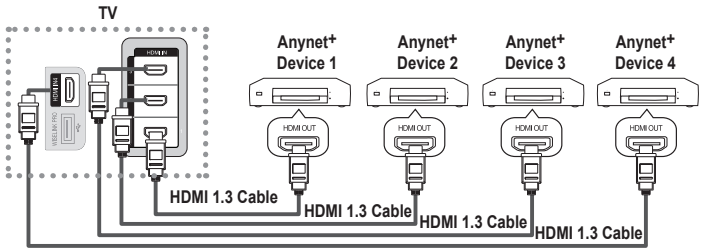
- **Provided Content**
  - Additional contents are available on www.samsung.com.

Connecting Anynet+ Devices

Anynet+ is a function that enables you to control all connected Samsung devices that support Anynet+ with your Samsung TV's remote.

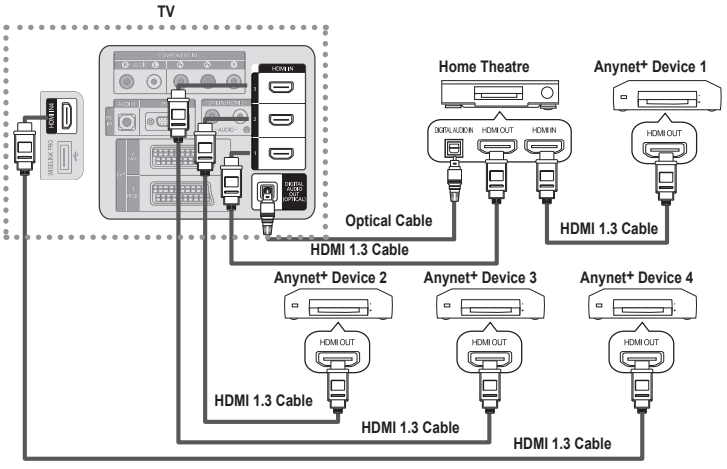
The Anynet+ system can be used only with Samsung devices that have the Anynet+ feature. To be sure your Samsung device has this feature, check if there is an Anynet+ logo on it.

To connect to a TV



1. Connect the [HDMI 1], [HDMI 2], [HDMI 3] or [HDMI 4] jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.

To connect to Home Theater



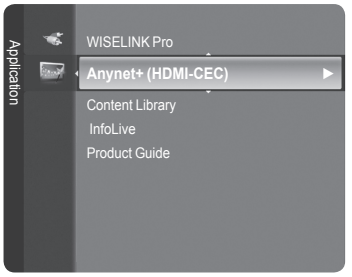
1. Connect the [HDMI 1], [HDMI 2], [HDMI 3] or [HDMI 4] jack on the TV and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.
2. Connect the HDMI IN jack of the home theater and the HDMI OUT jack of the corresponding Anynet+ device using an HDMI cable.

- Connect the Optical cable between the Digital Audio Out (Optical) jack on your TV and the Digital Audio Input on the Home Theater.
- When following the connection above, the Optical jack only outputs 2 channel audio. You will only hear sound from the Home Theater's Front Left and Right speakers and the subwoofer. If you want to hear 5.1 channel audio, connect the Digital Audio Out (Optical) jack on the DVD player or Cable/Satellite Box (ie Anynet Device 1 or 2) directly to the Amplifier or Home Theater, not the TV.
- Connect only one Home Theater.
- You can connect an Anynet+ device using the HDMI 1.3 cable. Some HDMI cables may not support Anynet+ functions.
- Anynet+ works when the AV device supporting Anynet+ is in the Standby or On status.
- Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.

Setting Up Anynet+

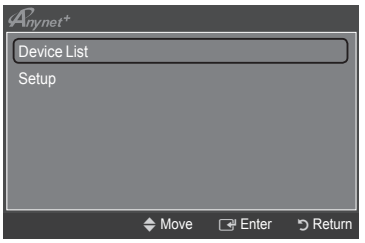
❑ Anynet+(HDMI-CEC)

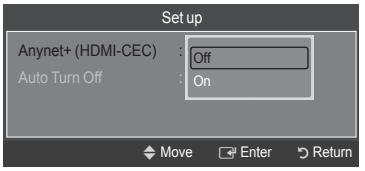
Tools → **Anynet+(HDMI-CEC)** performs the same function.



Setup

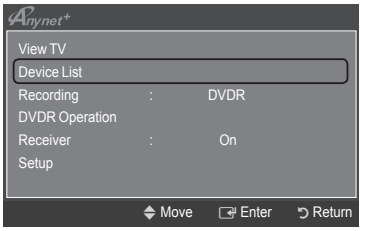
- **Anynet+(HDMI-CEC)** → **Off / On**: To use the Anynet+ Function, **Anynet+ (HDMI-CEC)** must be set to **On**.
  - When the **Anynet+ (HDMI-CEC)** function is disabled, all the Anynet+ related operations are deactivated.
- **Auto Turn Off** → **No / Yes**: Setting an Anynet+ Device to turn Off Automatically when the TV is Turned Off
  - The active source on the TV remote must be set to TV to use the Anynet+ function.
  - If you set **Auto Turn Off** to **Yes**, connected external devices are also turned off when the TV is turned off. If an external device is still recording, it may or may not turn off.





Scanning and Switching between Anynet+ Devices

1. Press the **TOOLS** button. Press the **ENTER** button to select **Anynet+ (HDMI-CEC)**.
2. Press the ▲ or ▼ button to select **Device List**, then press the **ENTER** button.
   - Anynet+ devices connected to the TV are listed. If you cannot find a device you want, press the red button to scan for devices.
   - Only when you set **Anynet+ (HDMI-CEC)** to On in the **Setup** menu, the **Device List** menu appears.
3. Press the ▲ or ▼ button to select to a particular device and press the **ENTER** button. It is switched to the selected device.



- Switching to the selected devices may take up to 2 minutes. You cannot cancel the operation during the switching operation.
- The time required to scan for devices is determined by the number of connected devices.
- When the device scan is complete, the number of devices found are not displayed.
- Although the TV automatically searches the device list when the TV is turned on via the power button, devices connected to the TV when the TV is on or under some conditions are not automatically displayed in the device list. Press the red button to search for the connected device.
- If you have selected external input mode by pressing the **SOURCE** button, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device by using the **Device List**.

Anynet+ Menu

The **Anynet+** menu changes depending on the type and status of the Anynet+ devices connected to the TV.

Anynet+ Menu	Description
View TV	Anynet+ mode changes to TV broadcast mode.
Device List	Shows the Anynet+ device list.
(device_name) Menu	Shows the connected device menus. E.g. If a DVD recorder is connected, the disc menu of the DVD recorder will appear.
(device_name) Operation	Shows the play menu of the connected device. E.g. If a DVD recorder is connected, the play menu of the DVD recorder will appear.
Record: (*recorder)	Starts recording immediately using the recorder. (This is only available for devices that support the recording function.)
(*recorder) Reserve Recording	Enables reserving a recording for the recorder. (This is only available for devices that support the recording reservation function.)
Stop Recording: (*recorder)	Stops recording.
Receiver	Sound is played through the receiver.

If more than one recording device is connected, they are displayed as (*recorder) and if only one recording device is connected, it will be represented as (*device_name).

TV Remote Control Buttons Available in Anynet+ Mode

Device Type	Operating Status	Available Buttons
Anynet+ Device	After switching to the device, when the menu of the corresponding device is displayed on the screen.	Numeric buttons ▲/▼/◄/►/**ENTER**↵ buttons Colour buttons / **EXIT** button
	After switching to the device, while playing a file	◄◄(Backward search) / ►►(Forward search) ■(Stop) / ►(Play) / II(Pause)
Device with built-in Tuner	After switching to the device, when you are watching a TV programme	**P** ∧ / ∨ button
Audio Device	When Receiver is activated	**VOL** + / − button **MUTE** button

The Anynet+ function only works when the active source on the TV remote control is set to TV.

The ● button works only while in the recordable state.

You cannot control Anynet+ devices using the buttons on the TV. You can control Anynet+ devices only using the TV remote control.

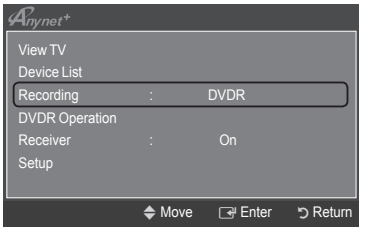
The TV remote control may not work under certain conditions. In this case, reselect the Anynet+ device.

The Anynet+ functions do not operate with other manufacturers' products.

The ◄◄, ►► operations may differ depending on the device.

Recording

You can make a recording of a TV programme using a Samsung recorder.



1. Press the **TOOLS** button. Press the **ENTER**↵ button to select **Anynet+ (HDMI-CEC)**.
2. Press the ▲ or ▼ button to select **Recording: (device_name)**, then press the **ENTER**↵ button. Recording begins.

   When there is more than one recording device
   When multiple recording devices are connected, the recording devices are listed. Press the ▲ or ▼ button to select a recording device and press the **ENTER**↵ button. Recording begins.

   When the recording device is not displayed
   Select **Device List** and press the red button to search devices.

3. Press the **EXIT** button to exit.

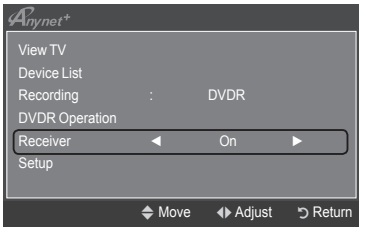
You can record the source streams by selecting **Recording: (device_name)**.

Pressing the ● button will record whatever you are currently watching. If you are watching video from another device, the video from the device is recorded.

Before recording, check whether the antenna jack is properly connected to the recording device. To properly connect an antenna to a recording device, refer to the recording device's users manual.

Listening through a Receiver (Home theater)

You can listen to sound through a receiver instead of the TV speaker.



1. Press the **TOOLS** button. Press the **ENTER** button to select **Anynet+ (HDMI-CEC)**.
2. Press the ▲ or ▼ button to select **Receiver**. Press the ◄ or ► button to select **On** or **Off**.
3. Press the **EXIT** button to exit.

- If your receiver supports audio only, it may not appear in the device list.
- The receiver will work when you have properly connected the Optical IN jack of the receiver to the Optical Out jack of the TV.
- When the receiver (home theater) is set to On, you can hear sound output from the TV's Optical jack. When the TV is displaying a DTV(air) signal, the TV will send out 5.1 channel sound to the Home theater receiver. When the source is a digital component such as a DVD and is connected to the TV via HDMI, only 2 channel sound will be heard from the Home Theater receiver.
- When using the WISELINK Pro feature, sound may not output properly through the receiver.
- When listening through the receiver, there are restrictions for using the PIP and audio-related (MTS, Preferred language) menus.
- If there is a power interruption to the TV when the **Receiver** is set to **On** (by disconnecting the power cord or a power failure), the **Select Speaker** may be set to **External Speaker** when you turn the TV on again. (see page 22)

Troubleshooting for Anynet+

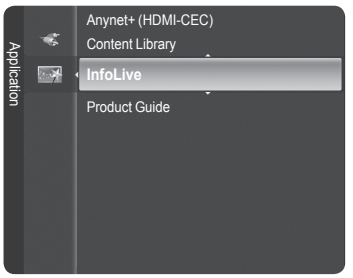
Symptom	Solution
Anynet+ does not work.	• Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. • Connect only one receiver (home theater). • Check if the Anynet+ device power cord is properly connected. • Check the Anynet+ device's Video/Audio/HDMI 1.3 cable connections. • Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu. • Check whether the TV remote control is in TV mode. • Check whether it is Anynet+ exclusive remote control. • Anynet+ doesn't work in certain situations. (Searching channels, Operating WISELINK Pro, Plug & Play, etc.) • When connecting or removing the HDMI 1.3 cable, please make sure to search devices again or turn your TV off and on again. • Check if the Anynet+ Function of Anynet+ device is set on.
I want to start Anynet+.	• Check if the Anynet+ device is properly connected to the TV and check if the Anynet+ (HDMI-CEC) is set to On in the Anynet+ Setup menu. • Press the **TV** button on the TV remote control to switch to TV. Then press the **TOOLS** button to show the **Anynet+** menu and select a menu you want.
I want to exit Anynet+.	• Select View TV in the Anynet+ menu. • Press the **SOURCE** button on the TV remote control and select a device other than Anynet+ devices. • Press **P** ∨/∧ and **PRE-CH** to change the TV mode. • (Note that the channel button operates only when a tuner-embedded Anynet+ device is not connected.)
The message Connecting to Anynet+ device... appears on the screen.	• You cannot use the remote control when you are configuring Anynet+ or switching to a view mode. • Use the remote control when the Anynet+ setting or switching to view mode is complete.
The Anynet+ device does not play.	You cannot use the play function when Plug & Play is in progress.
The connected device is not displayed.	• Check whether or not the device supports Anynet+ functions. • Check whether or not the HDMI 1.3 cable is properly connected. • Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu. • Search Anynet+ devices again. • You can connect an Anynet+ device using the HDMI 1.3 cable only. Some HDMI cables may not support Anynet+ functions. • If it is terminated by an abnormal situation such as disconnecting the HDMI cable or power cord or a power failure, please repeat the device scan.
The TV programme cannot be recorded.	Check whether the antenna jack on the recording device is properly connected.
The TV sound is not output through the receiver.	Connect the optical cable between TV and the receiver.

InfoLive

Using InfoLive

You can view news, stock market and weather information services using SAMSUNG's InfoLive service.

- Set up the network. (Refer to pages 27~28)
- InfoLive is available only in UK, France, Germany, Italy, Spain, Norway, Sweden, Denmark, Finland and Russia. **Country** is selected depending on the country which is set in Plug & Play.



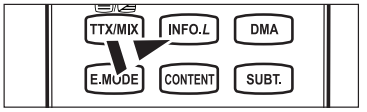
1. Press the **MENU** button to display the menu.
Press the ▲ or ▼ button to select **Application**, then press the **ENTER** button.

2. Press the ▲ or ▼ button to select **InfoLive**, then press the **ENTER** button.

3. Press the ◄ or ► button to select a service (**Weather**, **News**, **Stocks** or **Setup**) and press the **ENTER** button.

You can select and view more than one service at the same time only for 'News (without detailed information)', 'Weather-Today's Weather', and 'Stocks-Favorite Stocks, Market Summary'.

Press the **INFO.*L*** button on the remote control to display the **InfoLive** menu.



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- ACCESS TO INFOLIVE IS SUBJECT TO THE YAHOO'S TERMS OF SERVICE AVAILABLE ON PAGE 67.
- YAHOO TERMS OF SERVICE IN **LANGUAGE** ARE AVAILABLE ON THE WEB AT **ADDRESS**.

French	http://fr.docs.yahoo.com/info/utos.html	Swedish	http://se.docs.yahoo.com/seterms.html
German	http://de.docs.yahoo.com/info/utos.html	Danish	http://dk.docs.yahoo.com/termsofservice.html
Italian	http://it.docs.yahoo.com/info/utos.html	Finnish	http://fi.docs.yahoo.com/info/terms/?fr=sfp
Spanish	http://es.docs.yahoo.com/info/utos.html		

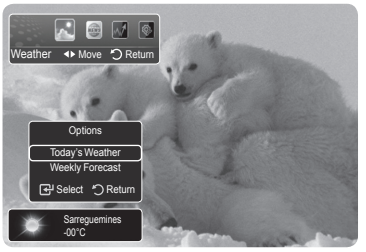
Using the Weather Service

1. Press the **INFO.L** button on the remote control.
2. Press the ◄ or ► button to move to the **Weather** service and press the **ENTER** button.

Set up the Region

3. Press the Yellow button. Press the ▲ or ▼ button to select the initial letter (A~Z) of the location you want, then press the **ENTER** button.
4. Press the ► button to move to the Category. Press the ▲ or ▼ button to select the location you want and press the **ENTER** button.

   You can check the weather of the selected region.



Set up Weather Option

5. Press the Red button while using the service to change the **Weather** service option.
6. Press ▲ or ▼ button and select **Weather** option.

To exit the **Weather** service, press the Blue button.

To exit the **InfoLive** service, press the **EXIT** button.

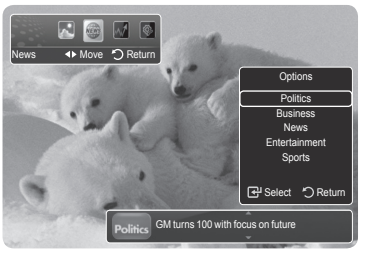
Using the News Service

The news provider may be changed in the future.

1. Press the **INFO.L** button on the remote control.
2. Press the ◄ or ► button to move to the **News** service and press the **ENTER** button.

   Press the **ENTER** button to view the detailed article.

   Press the ◄ or ► button to view the previous or next article.
3. Press the Red button while using the service to change the **News** service Option.
4. Press ▲ or ▼ button and select **News** service option.



The **News** service option changes depending on the provided web service.

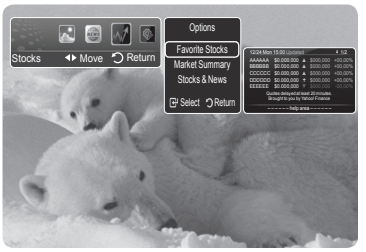
To exit the **News** service, press the Blue button.

To exit the **InfoLive** service, press the **EXIT** button.

Using the Stock Service

1. Press the **INFO.L** button on the remote control.
2. Press the ◄ or ► button to move to the **Stocks** service and press the **ENTER** button.
3. Press the Red button while using the service to change the **Stocks** service option.
4. Press ▲ or ▼ button and select **Stocks** service option, then press the **ENTER** button.

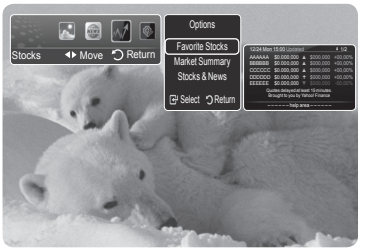
- Stock quotes delayed up to 20 minutes. The delay time can vary depending on country.
- To exit the **Stocks** service, press the Blue button.
- To exit the **InfoLive** service, press the **EXIT** button.

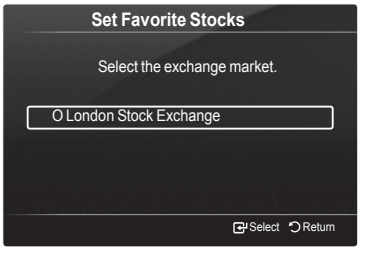


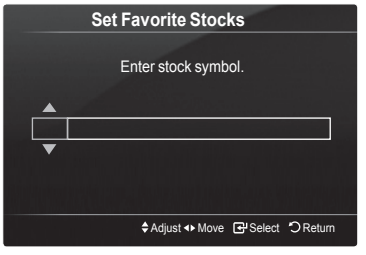
- **Favorite Stocks**: The Favorite stock information is displayed. You can set up the Favorite Stocks by pressing the Yellow button.
- **Market Summary**: Major indices are toggled and the entire index, amount of up or down, and % are displayed.
- **Stocks & News**: The Favorite stock information and major indices and Financial news are displayed.

Setting Favorite Stocks Items

1. Press the Yellow button when **Favorite Stocks** or **Stocks & News** is selected.
2. Press the ▲ or ▼ button to select the exchange market you want and press the **ENTER** button.
   - The set **Favorite Stocks** screen appears.
3. Press the ◄, ►, ▲ or ▼ button to enter stock symbol. Then press the **ENTER** button.
   - The result is displayed.
   - You can check the stock symbols by newspaper or Internet.
4. Press the **ENTER** button to set a favourite stock.
   - The selected stock is set as a Favorite Stock.
   - To delete your favourite stocks
     Press the Green button when **Favorite Stocks** or **Stocks & News** is selected. Press the ▲ or ▼ button to select a stocks, then press the **ENTER** button. The ✓ mark will disappear to the left of the stock name. Press the **RETURN** button.

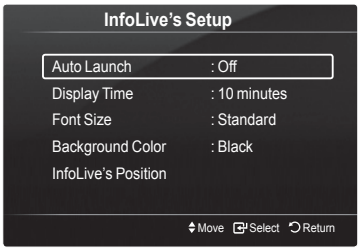






InfoLive Setup

1. Press the **INFO.L** button on the remote control.
2. Press the ◄ or ► button to select **Setup**, then press the **ENTER** button.
3. Press the ▲ or ▼ button to select the desired option. (**Auto Launch, Display Time, Font Size, Background Color, InfoLive's Position**)
4. Press the ▲ or ▼ button to select an option, then press the **ENTER** button.

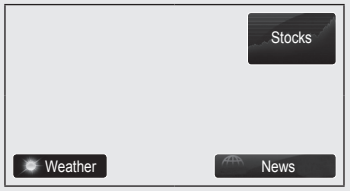


- **Auto Launch**: Determines whether to launch InfoLink automatically when the TV is turned on. You can select either **Off** or **On**.
- **Display Time**: Determines the time to display the service on the TV screen. You can select :**10 minutes, 20 minutes, 1 hour,** or **Always**.
- **Font Size**: You can select letter size **Standard** or **Large** through InfoLink service.
- **Background Colour**: You can select the **Background Colours** (black, blue, red, grean, gray) of InfoLink service. The colour is applied to each service, option and setup window.
- **InfoLink's Position**: You can set the position of each InfoLink service on the screen. You can select from six preset InfoLink positions (**Position 1~Position 6**).

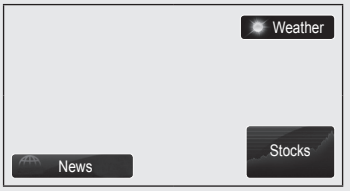
To exit the **Setup** service, press the **RETURN** button.

To exit the **InfoLive** service, press the **EXIT** button.

■ **InfoLive's Position**



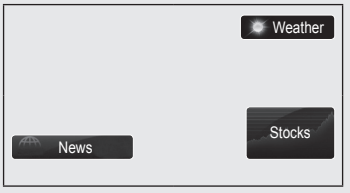
Position 1



Position 2

Position 3

Position 4



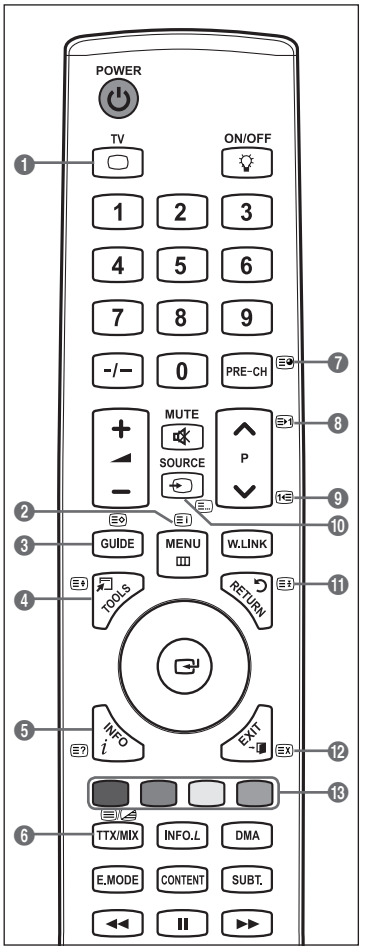
Position 5

Position 6

Teletext Feature

Most television stations provide written information services via Teletext. The index page of the teletext service gives you information on how to use the service. In addition, you can select various options to suit your requirements by using the remote control buttons.

For teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.



❶ **(exit)**

Exit from the teletext display.

❷ **(index)**

Used to display the index (contents) page at any time while you are viewing teletext.

❸ **(store)**

Used to store the teletext pages.

❹ **(size)**

Press to display the double-size letters in the upper half of the screen. For lower half of the screen, press it again. To display normal screen, press it once again.

❺ **(reveal)**

Used to display the hidden text (answers to quiz games, for example). To display normal screen, press it again.

❻ **(teletext on/mix)**

Press to activate teletext mode after selecting the channel providing the teletext service. Press it twice to overlap the teletext with the current broadcasting screen.

❼ **(sub-page)**

Used to display the available sub-page.

❽ **(page up)**

Used to display the next teletext page.

❾ **(page down)**

Used to display the previous teletext page.

❿ **(mode)**

Press to select the teletext mode (LIST/FLOF). If you press it in the LIST mode, it switches into the List save mode. In the List save mode, you can save teletext page into list using the (store) button.

⓫ **(hold)**

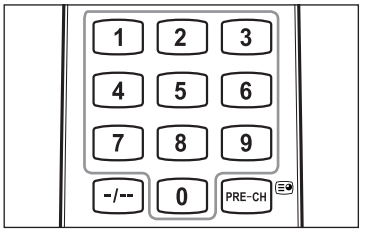
Used to hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again.

⓬ **(cancel)**

Used to display the broadcast when searching for a page.

⓭ **Colour buttons (red/green/yellow/blue)**

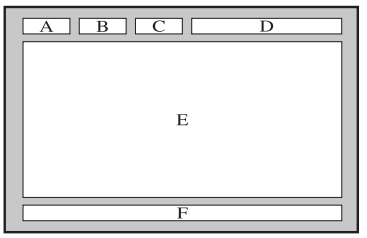
If the FASTEXT system is used by a broadcasting company, the different topics covered on a teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way. To display the previous or next page, press the corresponding coloured button.



You can change teletext pages by pressing the numeric buttons on the remote control.

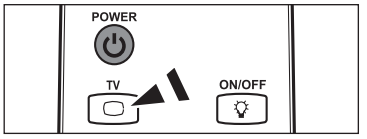
The teletext pages are organized according to six categories:

Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information.
	FASTEXT information.



Teletext information is often divided between several pages displayed in sequence, which can be accessed by:
- Entering the page number
- Selecting a title in a list
- Selecting a coloured heading (FASTEXT system)

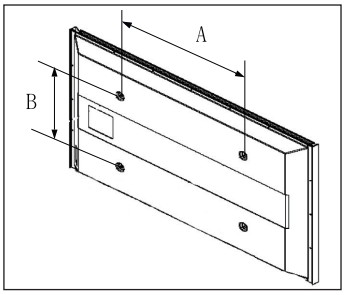
Press the **TV** button to exit from the teletext display.



Wall Mount Kit Specifications (VESA)

Install your wall mount on a solid wall perpendicular to the floor.
When attaching to other building materials, please contact your nearest dealer.
If installed on a ceiling or slanted wall, it may fall and result in severe personal injury.

Product Family	inch	VESA Spec. (A * B)	Standard Screw	Quantity
LCD-TV	23 ~ 26	200 * 100	M4	4
	32 ~ 40	200 * 200	M6	
	46 ~ 52	400 * 400 600 * 400	M8	
	57	700 * 400 (No VESA)		
	57 ~ 70	800 * 400		
	80 ~	1400 * 800		
PDP-TV	42 ~ 58	400 * 400 600 * 400	M8	4
	63	676 * 407 (No VESA)		6
	63 ~ 70	800 * 400		4
	80 ~	1400 * 800		4

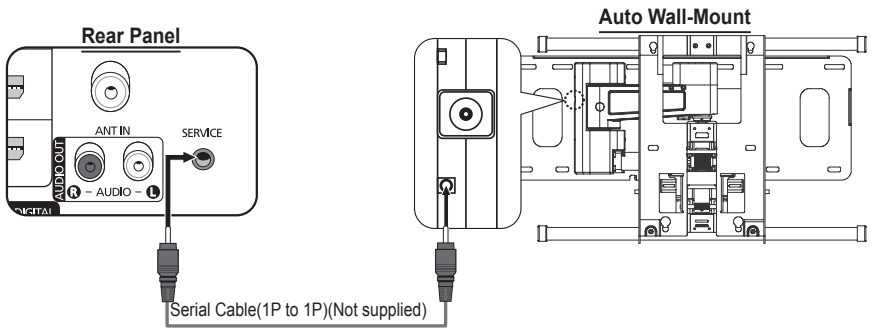


We provided the standard dimensions for wall mount kits as shown in the table above.
When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
Do not use screws longer than the standard dimension, as they may cause damage to the inside of the TV set.
For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on their specifications.
Do not use screws that do not comply with the VESA standard screw specifications.
Do not use fasten the screws too strongly, this may damage the product or cause the product to fall, leading to personal injury.
Samsung is not liable for these kinds of accidents.
Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
Our 57” and 63” models do not comply with VESA Specifications. Therefore, you should use our dedicated wall mount kit for this model.
Do not exceed 15 degrees tilt when mounting this TV.

Do not install your Wall Mount Kit while your TV is turned on.
It may result in personal injury due to electric shock.

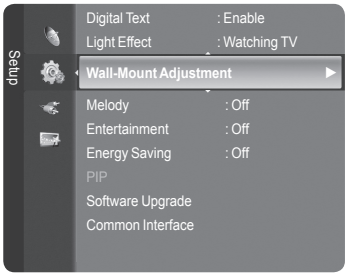
Auto Wall-Mount Adjustment (Sold separately) (Depending on the model)

Once the auto wall mount is installed, your TV's position can be easily adjusted.



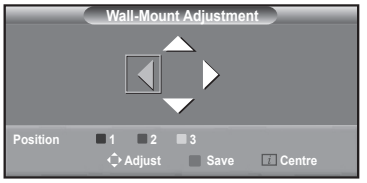
Entering the menu

1. Press the ▲, ▼, ◄ or ► button on your remote control.
   - The Wall Mount Adjustment screen is displayed.
   - If the Auto Wall-Mount screen is not displayed when clicking on a direction button while watching your TV, use the menu to display that screen.
     - Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select **Setup**, then press the **ENTER** button.
     - Press the ▲ or ▼ button to select **Wall-Mount Adjustment**, then press the **ENTER** button.



Remembering the Position

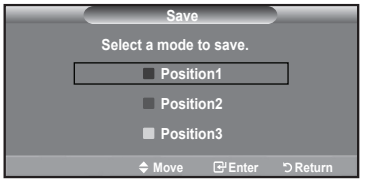
2. Adjust to the desired position using the ▲,▼,◄,► buttons.
   - If you press an arrow button when no OSD is displayed on the TV screen, the Adjustment screen appears.
   - Press the **INFO** button to reset. Press the ◄ or ► button to select **Yes**, then press the **ENTER** button. The position is initialized to the default setting.
3. Press the blue button. Press the ▲ and ▼ buttons to select a save mode from either Position 1, Position 2 or Position 3 in order to save the current position.
   - To not save the current position, press the **RETURN** button.
   - When selecting a save mode, you cannot use the Colour buttons.



4. Press the **ENTER** button to save.
   - When Position1 is selected, the message **Current position saved as Position1** is displayed.
5. Press the **ENTER** button.
   - The saved Position appears on the left side of the OSD.

Moving to the remembered position

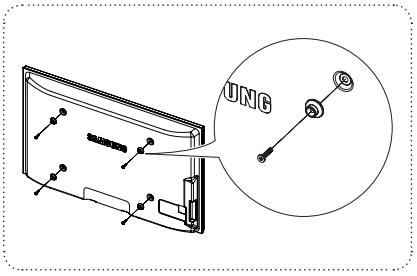
1. Complete Step 1 of **Entering the menu**.
2. Pressing a Colour (Red, Green, Yellow) button moves the auto wall mount to the saved position.
   - You can move the wall mount to one of the 3 pre-set positions by pressing the Red (Position 1), Green (Position 2) or Yellow (Position 3) buttons.
   - If you adjust the Position after moving to a pre-set position, the position display will disappear.



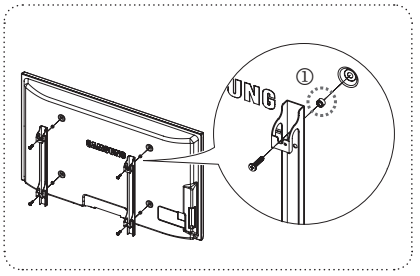
- For installation, refer to the Installation Manual provided with the wall mount.
- For product installation and the installation and moving of the wall mount, make sure to consult a specialized installation company.
- This installation manual is to be used when attaching the wall mount to a wall. When attaching to other building materials, please contact your nearest dealer.
- The auto wall mount will not work when **Anynet+** or **WISELINK Pro** is operating.

Preparing before installing Wall- Mount on the wall

Case A. Installing SAMSUNG Wall-Mount



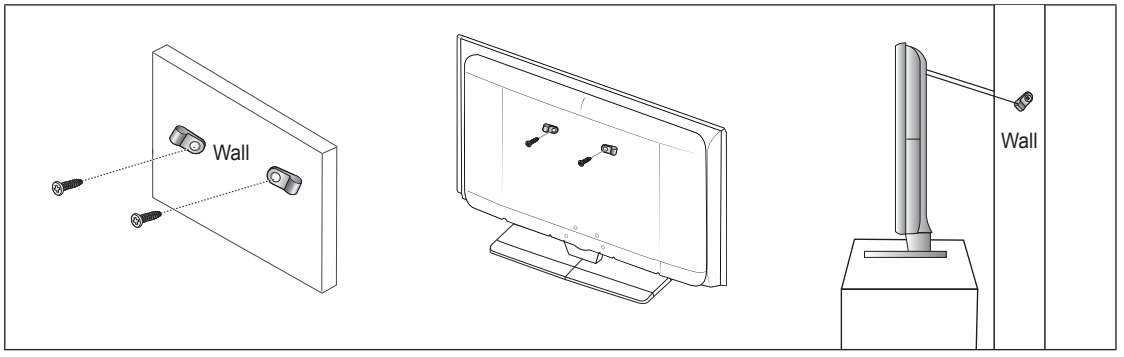
Case B. Installing other company's Wall-Mount



1. Install Wall Mount with the torque range of 15kgf·cm or less. Make sure that parts can be damaged if the torque is out of the specified range.
2. Accessory Kit contains Holder–Ring [①] for installing other company's Wall-Mount on Samsung TV. (Case B)

Securing the TV to the Wall

Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, causing serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as follows.



To avoid the TV from falling:

1. Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.
   - You may need additional material such as an anchor depending on the type of wall.
   - Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.
2. Remove the screws from the center back of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
   - Screws may not be supplied with the product. In this case, please purchase the screws of the following specifications.
3. Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong string and then tie the string tightly.
   - Install the TV near to the wall so that it does not fall backwards.
   - It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
   - Untie the string before moving the TV.
4. Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections,contact a professional installer.

Troubleshooting

Before contacting the Samsung after-sales service, perform the following simple checks.
If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture	• Check that the mains lead has been connected to a wall socket. • Check that you have pressed the button on your set. • Check the picture contrast and brightness settings. • Check the volume. • Check if **TV Speaker** is set to **Off**.
Normal picture but no sound	• Check the volume. • Check whether the **MUTE** button has been pressed on the remote control.
No picture or black and white picture	• Adjust the colour settings. • Check that the broadcast system selected is correct.
Sound and picture interference	• Try to identify the electrical appliance that is affecting the television, then move it further away. • Plug the television into a different main socket.
Blurred or snowy picture, distorted sound	• Check the direction, location and connections of your aerial. • This interference often occurs due to the use of an indoor aerial.
Remote control malfunctions	• Replace the remote control batteries. • Clean the upper edge of the remote control (transmission window). • Check that the **+** and **–** ends of the batteries are inserted correctly. • Check that the batteries are drained.
Screen is black and power indicator light blinks steadily	• On your computer check; Power, Signal Cable. • The TV is using its power management system. • Move the computer's mouse or press any key on the keyboard. • On your equipment check (STB, DVD, etc) ; Power, Signal Cable. • The TV is using its power management system. • Press the Source button on the panel or remote control. • Turn the TV off and on.
The damaged picture appears in the corner of the screen.	• If **Just Scan** is selected in some external devices, the damaged picture may appear in the corner of the screen. This symptom is caused by external devices, not TV.
The "Resets all settings to the default values" message appears.	• This appears when you press and hold the **EXIT** button for a while. The product settings are reset to the factory defaults.

Specifications

The descriptions and characteristics in this booklet are given for information purposes only and are subject to modification without notice.

Model Name	PS50A756	PS63A756
Screen Size (Diagonal)	50 inch	63 inch
PC Resolution (Optimum)	1920 x 1080 @ 60 Hz	1920 x 1080 @ 60 Hz
Sound (Output)	10 W x 2	15 W x 2
Dimension (WxHxD) Body With stand	 1240 x 766 x 96 mm 1240 x 830 x 315 mm	 1531 x 932 x 99 mm 1531 x 1005 x 418 mm
Weight Body With stand	 39 kg 44 kg	 67 kg 84 kg
Environmental Considerations Operating Temperature Operating Humidity Storage Temperature Storage Humidity	 50 °F to 104 °F (10 °C to 40 °C) 10% to 80%, non-condensing -4 °F to 113 °F (-20 °C to 45 °C) 5% to 95%, non-condensing	

- This device is a Class B digital apparatus.
- Design and specifications are subject to change without prior notice.
- For the power supply and Power Consumption, refer to the label attached to the product.

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   In addition, when using particular Yahoo! services, you and Yahoo! shall be subject to any guidelines and rules applicable to such services which may be posted by Yahoo! from time to time. All such guides and rules are hereby incorporated by reference into the TOS. In most cases the guides and rules are specific to a particular part of the Service and will assist you in applying the TOS to that part, but to the extent of any inconsistency between the TOS and any guide or rule, the TOS will prevail. Yahoo! may also offer services from time to time that are governed by other terms of service. In such cases the other terms of service will be posted on the relevant service to which they apply.
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   In order to use the Service, you must obtain access to the World Wide Web, either directly or through devices that access web-based content, and pay any service and/or telephony fees associated with such access. In addition, you must provide all equipment necessary to make such connection to the World Wide Web, including a computer and modem or other access device. Please be aware that Yahoo! has created certain areas on the Service that contain adult or mature content. You must be at least 18 years of age to access and view such areas.
3. YOUR REGISTRATION OBLIGATIONS AND SUPERVISING CHILDREN
   In consideration of your use of the Service, you agree to: (a) provide true, accurate, current and complete information about yourself as prompted by the Service's registration form (such information being the "Registration Data") and (b) maintain and promptly update the Registration Data to keep it true, accurate, current and complete. If you provide any information that is untrue, inaccurate, not current or incomplete, or Yahoo! has reasonable grounds to suspect that such information is untrue, inaccurate, not current or incomplete, Yahoo! has the right to suspend or terminate your account and refuse any and all current or future use of the Service (or any portion thereof).
   Yahoo! is concerned about the safety and privacy of all its users, particularly children. For this reason, parents who wish to allow their children access to the Service should assist them in setting up any relevant accounts and supervise their access to the Service. By allowing your child access to the Service, they will be able to access all of the Services including, email, message boards, groups, instant messages and chat (among others). Please remember that the Service is designed to appeal to a broad audience. Accordingly, as the legal guardian, it is your responsibility to determine whether any of the Services and/or Content (as defined in Section 6 below) are appropriate for your child.
4. YAHOO! PRIVACY POLICY
   Registration Data and certain other information about you is subject to our Privacy Policy. For more information, please see our full privacy policy at http://privacy.yahoo.com/privacy/uk
5. MEMBER ACCOUNT, PASSWORD AND SECURITY
   You will receive a password and account designation upon completing the Service's registration process. You are responsible for maintaining the confidentiality of the password and account, and are fully responsible for all activities that occur under your password or account. You agree to (a) immediately notify Yahoo! of any unauthorised use of your password or account and any other breach of security, and (b) ensure that you exit from your account at the end of each session. Yahoo! cannot and will not be liable for any loss or damage arising from your failure to comply with this Section 5.
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   You acknowledge that all information, data, text, software, music, sound, photographs, graphics, video, messages and other materials ("Content"), whether publicly posted or privately transmitted, are the sole responsibility of the person from which such Content originated. This means that you, and not Yahoo! are entirely responsible for all Content that you upload, post, email or otherwise transmit via the Service. Yahoo! does not control the Content posted via the Service and, as such, does not guarantee the accuracy, integrity or quality of such Content. You acknowledge that by using the Service, you may be exposed to Content that is offensive, indecent or objectionable. Under no circumstances will Yahoo! be liable in any way for any Content, including, but not limited to, for any errors or omissions in any Content, or for any loss or damage of any kind incurred as a result of the use of any Content posted, emailed or otherwise transmitted via the Service.
   You agree to not use the Service to:
   a. upload, post, email or otherwise transmit any Content that is unlawful, harmful, threatening, abusive, harassing, tortious, defamatory, vulgar, obscene, libellous, invasive of another's privacy, hateful, or racially, ethnically or otherwise objectionable;
   b. harm minors in any way;
   c. impersonate any person or entity, including, but not limited to, a Yahoo! official, forum leader, guide or host, or falsely state or otherwise misrepresent your affiliation with a person or entity;
   d. forge headers or otherwise manipulate identifiers in order to disguise the origin of any Content transmitted through the Service;
   e. upload, post, email or otherwise transmit any Content that you do not have a right to transmit under any law or under contractual or fiduciary relationships (such as inside information, proprietary and confidential information learned or disclosed as part of employment relationships or under nondisclosure agreements);

f. upload, post, email or otherwise transmit any Content that infringes any patent, trademark, trade secret, copyright or other proprietary rights ("Rights") of any party;
g. upload, post, email or otherwise transmit any unsolicited or unauthorised advertising, promotional materials, "junk mail," "spam," "chain letters," "pyramid schemes," or any other form of solicitation, except in those areas (such as shopping rooms) that are designated for such purpose;
h. upload, post, email or otherwise transmit any material that contains software viruses or any other computer code, files or programs designed to interrupt, damage, destroy or limit the functionality of any computer software or hardware or telecommunications equipment;
i. disrupt the normal flow of dialogue, cause a screen to "scroll" faster than other users of the Service are able to type, or otherwise act in a manner that negatively affects other users' ability to engage in real time exchanges;
j. interfere with or disrupt the Service or servers or networks connected to the Service, or disobey any requirements, procedures, policies or regulations of networks connected to the Service;
k. intentionally or unintentionally violate any applicable law or regulation including, but not limited to, regulations promulgated by any securities exchange;
l. "stalk" or otherwise harass another; or
m. extract, collect, process, combine or store personal data about other users.

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You acknowledge that the technical processing and transmission of the Service, including your Content, may involve transmissions over various networks and changes to conform and adapt to technical requirements of connecting networks or devices. Yahoo! reserves the right to terminate your access to some or all parts of its Service if you withdraw your consent in this paragraph at any time.

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   c. With respect to all other Content you elect to post to other publicly accessible areas of the Service, you grant Yahoo! the royalty-free, perpetual, irrevocable, non-exclusive and fully sub-licensable right and licence to use, reproduce, modify, adapt, publish, translate, create derivative works from, distribute, perform and display such Content (in whole or part) worldwide and/or to incorporate it in other works in any form, media, or technology now known or later developed.

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YOU AGREE THAT REGARDLESS OF ANY STATUTE OR LAW TO THE CONTRARY, ANY CLAIM OR CAUSE OF ACTION ARISING OUT OF OR RELA TED TO USE OF THE SERVICE OF THESE TOS MUST BE FILED WITHIN ONE (1) YEAR AFTER SUCH CLAIM OR CAUSE OF ACTION AROSE OR BE FOREVER BARRED.

19. EXCLUSIONS AND LIMITATIONS

SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF CERTAIN WARRANTIES OR THE LIMITATION OR EXCLUSION OF LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. ACCORDINGLY, SOME OF THE ABOVE LIMITATIONS OF SECTIONS 17 AND 18 MAY NOT APPLY TO YOU.

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21. NOTICE

Notices to you may be made via either email or regular mail. The Service may also provide notices of changes to the TOS or other matters by displaying notices or links to notices to you generally on the Service.

22. TRADEMARK INFORMATION

Yahoo!, the Yahoo! logo, Yahoo! in Chinese Characters, Yahooligans!, the Yahooligans! logo, YAHOO! KIDS, Yahoo! Kids logo, the “Jumpin Y Guy” logo, Do you Yahoo!?, Y!, Y! stylised, My Yahoo!, Eyeballs design, Homework Answers, The Scoop, Get Local, the Worlds Favorite Internet Guide, the Sunglasses design, e Café Yahoo!, Viaweb, Shop Find, EZSpree, EZWheels, I Shops, Permission Marketing, Yoyodyne, Get Rich Click, and Geocities trademarks and service marks, and other Yahoo! logos and product and service names are trademarks of Yahoo! Inc. (the “Yahoo! Marks”). Without Yahoo’s prior permission, you agree not to display or use in any manner, the Yahoo! Marks.

23. COPYRIGHTS and COPYRIGHT AGENTS

Yahoo! respects the intellectual property of others, and we ask our users to do the same. If you believe that any of your intellectual property rights have been infringed on the Service, please go to our copyright policy to report the problem.

24. GENERAL INFORMATION

These TOS (including the guides and rules referred to herein) constitute the entire agreement between you and Yahoo! and govern your use of the Service, superseding any prior agreements between you and Yahoo! You also may be subject to additional terms and conditions that may apply when you use affiliate services, third-party content or third-party software. The TOS and the relationship between you and Yahoo! shall be governed by the laws of England. You and Yahoo! agree to submit to the exclusive jurisdiction of the English courts. Any failure by Yahoo! to exercise or enforce any right or provision of the TOS shall not constitute a waiver of such right or provision. If any provision of the TOS is found by a court of competent jurisdiction to be invalid, the parties nevertheless agree that the court should endeavour to give effect to the parties’ intentions as reflected in the provision, and the other provisions of the TOS remain in full force and effect.

Neither you nor Yahoo! may assign or transfer any rights or obligations under these TOS without the prior written consent of the other party, except that Yahoo! shall be entitled to assign or transfer any or all of its rights and obligations (without your prior consent) to any of its affiliated companies.

The section titles in the TOS are for convenience only and have no legal or contractual effect. No Right of Survivorship and Non-Transferability. You agree that your Yahoo! account is non-transferable and any rights to your Yahoo! ID or contents within your account terminate upon your death. Any free account that has not been used for a certain period of time may be terminated and all contents therein permanently deleted in line with Yahoo!’s policy.

25. VIOLATIONS

Please report any violations of the TOS to Yahoo! Customer Care.

Warning! Important Safety Instructions

Please read the appropriate section that corresponds to the marking on your Samsung product before attempting to install the product.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.

This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.

This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation.
  To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
  - Do not cover the slots and openings with a cloth or other materials.
  - Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
  - Do not place this apparatus in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided.
  - Give your product 10 cm (4 inch) clearance from the wall.
- Do not place this apparatus near or over a radiator or heat resistor, or where it is exposed to direct sunlight.
- Do not place heat generating items such as candles, ashtrays, incense, flammable gas or explosive materials near the product.
- Do not place a water containing vessel on this apparatus, as this can result in a risk of fire or electric shock.
- Do not expose this apparatus to rain or place it near water(near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.). If this apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately. Make sure to pull out the power cord from the outlet before cleaning.
- This apparatus use batteries. In your community there might be regulations that require you to dispose of these batteries properly under environmental considerations. Please contact your local authorities for disposal or recycling information.
- Do not overload wall outlets, extension cords or adaptors beyond their capacity, since this can result in fire or electric shock.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plug end, adaptors and the point where they exit from the appliance.
- To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system.
  This will prevent damage to the set due to lightning and power line surges.
- Before connecting the AC power cord to the DC adaptor outlet, make sure the voltage designation of the DC adaptor corresponds to the local electrical supply.
- Never insert anything metallic into the open parts of this apparatus. Doing so many create a danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus.
- Make sure to plug the power cord in until it is firmly inserted. When removing the power cord, make sure to hold the power plug when pulling the plug from the outlet. Do not touch the power cord with wet hands.
- If this apparatus does not operate normally - in particular, if there are any unusual sounds or smells coming from it
  - unplug it immediately and contact an authorized dealer or service center.
- Be sure to pull the power plug out of the outlet if the TV is to remain unused or if you are to leave the house for an extended period of time (especially when children, elderly or disabled people will be left alone in the house).
- Accumulated dust can cause an electric shock, an electric leakage or a fire by causing the power cord to generate sparks and heat or the insulation to deteriorate.
- Be sure to contact an authorized service center, when installing your set in a location with heavy dust, high or low temperatures,high humidity, chemical substances and where it operates for 24 hours such as the airport, the train station etc. Failure to do so may cause serious damage to your set.
- Use only a properly grounded plug and receptacle.
  - An improper ground may cause electric shock or equipment damage. (Class I Equipment only.)
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.
- Do not allow children to hang onto the product.
- Store the accessories (battery, etc.) in a location safely out of the reach of children.
- Do not install the product in an unstable location such as a shaky self, a slanted floor or a location exposed to vibration.
- Do not drop or impart any shock to the product. If the product is damaged, disconnect the power cord and contact a service center.

WARNING - TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.

Wiring the Mains Power Supply Plug (UK Only)

IMPORTANT NOTICE
The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BSI1362 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitabl y approved extension lead or consult your dealer for assistance. However, if there is no alternative but to cut off the plug, remove the fuse and then safely dispose of the plug.

Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

IMPORTANT
The wires in the mains lead are coloured in accordance with the following code:
BLUE - NEUTRAL BROWN - LIVE
As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows :
The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK.
The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

WARNING:
DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL, WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL ⏚, OR COLOURED GREEN OR GREEN AND YELLOW.

Warranty Card

UNITED KINGDOM

This Samsung product is warranted for a period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased. However, Samsung Authorised Dealers and Authorised Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned. In case of difficulty, details of our Authorised Service Centres are available from:

Samsung Electronics U.K. Ltd.
Customer Care Centre
PO Box 17243
Edinburgh, EH11 4YB
United Kingdom
Tel: 0870 SAMSUNG (7267864)(UK & Northern Ireland)
Tel: 0818 717 100 (EIRE Only)
Fax: +44 0845 650 8080
Web : www.samsung.com

WARRANTY CONDITIONS
1. The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been defaced.
2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
3. Warranty repairs must be carried out by Authorised Samsung Dealers or Authorised Service Centres. No re-imbursement will be made for repairs carried out by non Samsung Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty.
4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any Country other than the one for which the product was originally designed and manufactured.

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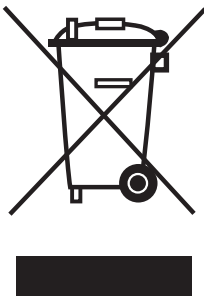

Correct Disposal of This Product

(**W**aste **E**lectrical & **E**lectronic **E**quipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life.
To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.
Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.
Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.